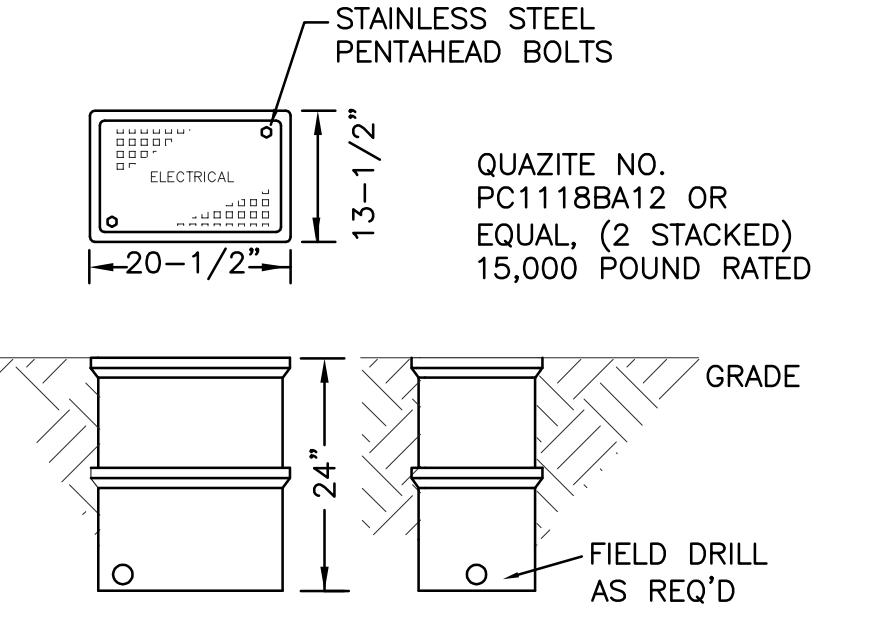
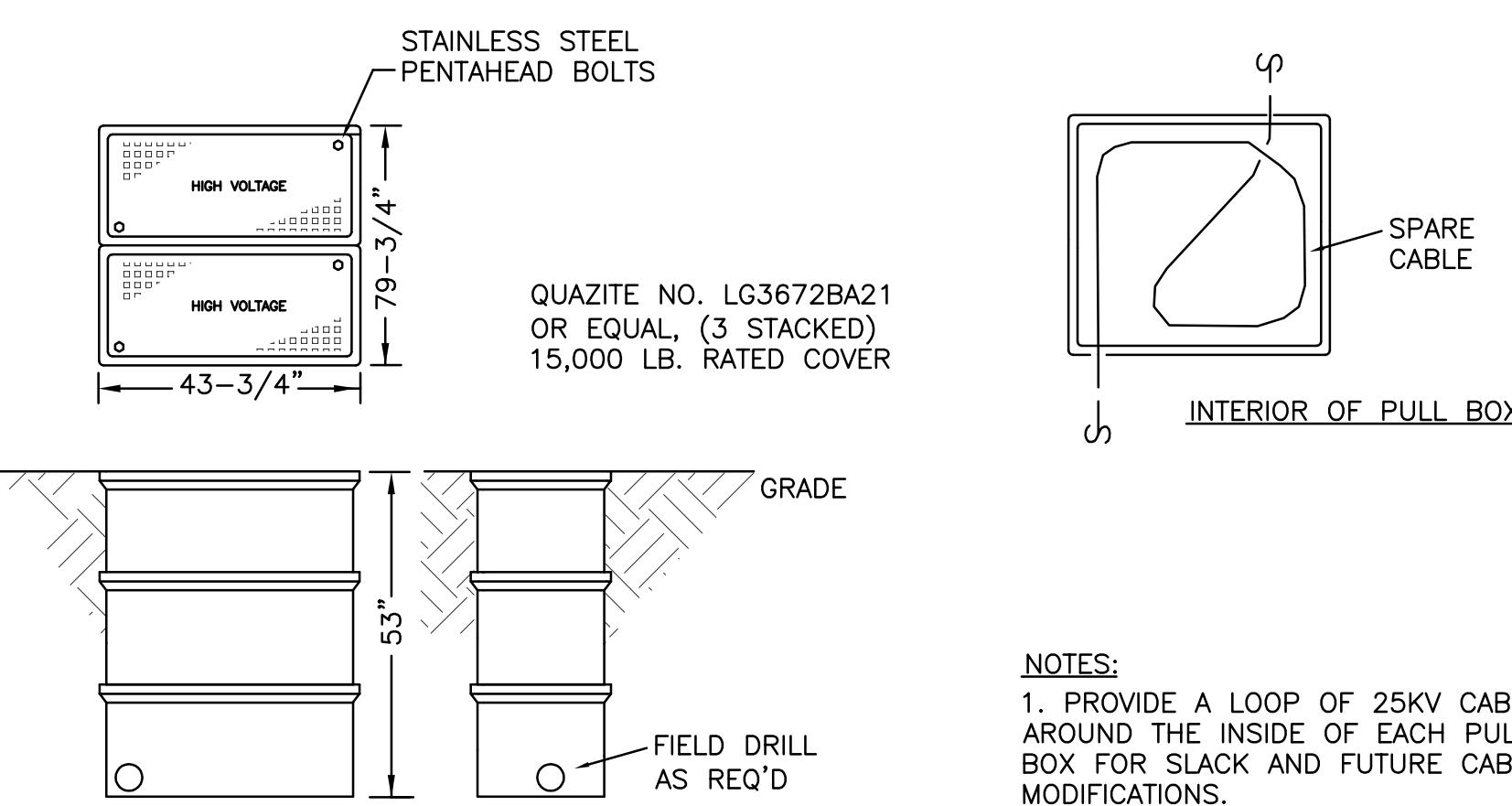


ELECTRICAL SYMBOLS LEGEND															
LIGHTING			POWER			SYSTEMS			FIRE ALARM			MISC/ABBREVIATIONS			
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	
A _o	CEILING SURFACE MOUNTED LIGHT FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, SMALL LETTER INDICATES SWITCHING.			DUPLEX RECEPTACLE ("C" INDICATES EMERGENCY CRITICAL BRANCH POWER)	18 INCHES	S	CEILING MOUNTED RECESSED SPEAKER		H _E	MANUAL STATION	48 INCHES	I	CEILING-MOUNTED JUNCTION BOX		
Ø	RECESSED CEILING MOUNTED LIGHT FIXTURE			DOUBLE DUPLEX RECEPTACLE ("C" INDICATES EMERGENCY CRITICAL BRANCH POWER)	18 INCHES	C	CEILING SURFACE MOUNTED SPEAKER		H	FIXED TEMPERATURE DETECTOR		I _O	WALL JUNCTION BOX	18 INCHES	
W _O	WALL MOUNTED INCAN. OR H.I.D. LIGHT FIXTURE, SURFACE OR, RECESSED MOUNTED			A	TYPE L14-30 RECEPTACLE	18 INCHES	H _S	WALL MOUNTED SPEAKER	90 INCHES TO BOTTOM	S	DUCT PHOTOELECTRIC DETECTOR				
W _E	CEILING EXIT SIGN, SHADED SIDE INDICATES LIGHTED FACE, ARROWS INSTALLED AS SHOWN	6 INCHES ABOVE DOOR FRAME TO BOTTOM		B	TYPE L14-50 RECEPTACLE	18 INCHES	S _G	CLOCK	90 INCHES TO BOTTOM	S _P	PHOTOELECTRIC DETECTOR ("S" INDICATES SLEEPING ROOM WITH AUX. CONTACT, "G" INDICATES GUARD, "E" INDICATES FOR ELEVATOR RECALL)				
W _E	WALL EXIT SIGN			GFCI TYPE RECEPTACLE	18 INCHES	C _G	CLOCK/SPEAKER UNIT	90 INCHES TO BOTTOM	C	COMBINATION FIRE/SMOKE DAMPER OR SMOKE DAMPER BY DIVISION 15					
	SUSPENDED FIXTURE			MULTI-OUTLET ASSEMBLY - M.O.A., PROVIDE DEVICES AS SHOWN ON PLANS	18 INCHES	H _M	MICROPHONE OUTLET	18 INCHES	H	HORN/STROBE WITH STROBE		L _{1-2,4,6}			
	SURFACE FLUORESCENT			DUPLEX RECEPTACLE, HALF SWITCHED	18 INCHES	M _F	MICROPHONE FLOOR OUTLET		S	SPEAKER HORN WITH STROBE		#10			
	RECESSED FLUORESCENT			FLOOR OUTLET, "R" INDICATES RECESSED, "F" INDICATES FLUSH, "S" INDICATES SURFACE MOUNT		V _C	VOLUME CONTROL	48 INCHES	X	EXPLOSION PROOF SPEAKER HORN WITH STROBE					
	Fixture connected to Emergency Life Safety Power			TIME SWITCH		A _M	AMPLIFIER CABINET		STROBE LIGHT						
	Fixture connected to Emergency Critical Branch Power			T	DRY TYPE TRANSFORMER		H _A	FIRE ALARM SPEAKER							
	EMERGENCY BATTERY LIGHT	7 FOOT 6 INCHES		H _B	PUSH BUTTON		H _M	FIRE ALARM MODULE/RELAY							
	EMERGENCY REMOTE LAMP	7 FOOT 6 INCHES		H _C	POWER DOOR HANDICAP PUSH PAD	42 INCHES	H _E	MAGNETIC DOOR HOLD OPEN							
	PHOTO CELL	9 FOOT		H _D	EMERGENCY BOILER SHUTDOWN PUSH BUTTON	48 INCHES	H _F	SUPERVISORY SWITCH (NUMBER INDICATES NUMBER OF DEVICES AT THIS LOCATION)							
	CEILING MOUNTED MOTION SENSOR SWITCH			H _E	THERMOSTAT - PROVIDE BY DIVISION 16	48 INCHES	H _G	PRESSURE SWITCH							
	WALL MOUNTED MOTION SENSOR SWITCH	84 INCHES		H _F	THERMOSTAT - FURNISHED BY DIVISION 15, INSTALLED BY DIVISION 16	48 INCHES	H _H	FLOW SWITCH							
	MOTION SENSOR SWITCH POWER PACK			H _G	Thermal switch (motor overload type)	48 INCHES	H _I	FIRE ALARM CONTROL PANEL							
	CONTACTOR (NUMBER INDICATES NUMBER OF POLES)			H _H	POWER POLE		H _J	FIRE ALARM ANNUNCIATOR							
	\$ ₁ SINGLE POLE (HORSEPOWER RATED WHEN USED AS MOTOR DISCONNECT)	48 INCHES		H _I	MOTOR (NUMBER REFERS TO MOTOR AND EQUIPMENT SCHEDULE SEE SCHEDULE FOR WIRING AND CONTROLLER REQUIREMENTS)		H _K	NURSE CALL							
	\$ ₂ DOUBLE POLE	48 INCHES		H _J	SURFACE LIGHTING AND APPLIANCE PANELBOARD		H _L	SYMBOLS DESCRIPTION	MOUNTING HEIGHT						
	\$ ₃ 3-WAY	48 INCHES		H _K	RECESSED LIGHTING AND APPLIANCE PANELBOARD		H _M	CORRIDOR CALL OR ZONE LIGHT, CEILING OR WALL MOUNT							
	\$ ₄ 4-WAY	48 INCHES		H _L	SWITCHBOARD OR MOTOR CONTROL CENTER AS NOTED		H _N	MASTER STATION							
	\$ _m OCCUPANCY SENSOR SWITCH	48 INCHES		H _M	SPECIAL EQUIPMENT CABINET AS NOTED		H _O	PATIENT EMERGENCY STATION	48 INCHES						
	\$ _k KEY OPERATED	48 INCHES		H _N	ENCLOSED MOLDED CASE CIRCUIT BREAKER		H _P	SINGLE BED PATIENT STATION							
	\$ _p WITH PILOT LIGHT (CAN BE USED WITH OTHER SWITCH TYPES)	48 INCHES		H _O	VARIABLE FREQUENCY CONTROLLER WITH DISCONNECT		H _R	STAFF STATION	48 INCHES						
	\$ _d FLUORESCENT DIMMER	48 INCHES		H _P	NON-FUSED DISCONNECT		H _S	DUTY STATION	48 INCHES						
	\$ _{mc} MOMENTARY CONTACT	48 INCHES		H _R	FUSED DISCONNECT		H _T	DOUBLE BED PATIENT STATION	48 INCHES						
	Ø DIMMER (600 WATT UNLESS OTHERWISE NOTED)	48 INCHES		H _S	MAGNETIC STARTER		H _{CB}	EMERGENCY (CODE ONE)							
	\$ _l LIGHTING INTENSITY SELECTOR PANEL	48 INCHES		H _T	COMBINATION STARTER-DISCONNECT		H _L	NURSE LOCATOR							
	\$ _{lv} LOW VOLTAGE SWITCH	48 INCHES		H _{CB}	JUNCTION BOX WITH BLANK COVER		H _{SA}	STAFF ASSIST	48 INCHES						
							H _P	EMERGENCY PUSH BUTTON	48 INCHES						
							H _{TA}	TELEMETRY ANTENNA	48 INCHES						
NOTES:															
1. THIS IS A COMPREHENSIVE SYMBOL SCHEDULE. NOT ALL SYMBOLS ARE APPLICABLE TO THESE DRAWINGS.															
2. MOUNTING HEIGHT IS TO THE CENTER OF DEVICE UNLESS OTHERWISE INDICATED.															
3. FOR DEVICES SHOWN AS 48 INCHES MOUNTING HEIGHT, WHEN INSTALLED IN MASONRY BLOCK WALLS, MOUNTING AT 48 INCHES TO THE TOP OF THE OUTLET BOX IS ACCEPTABLE.															

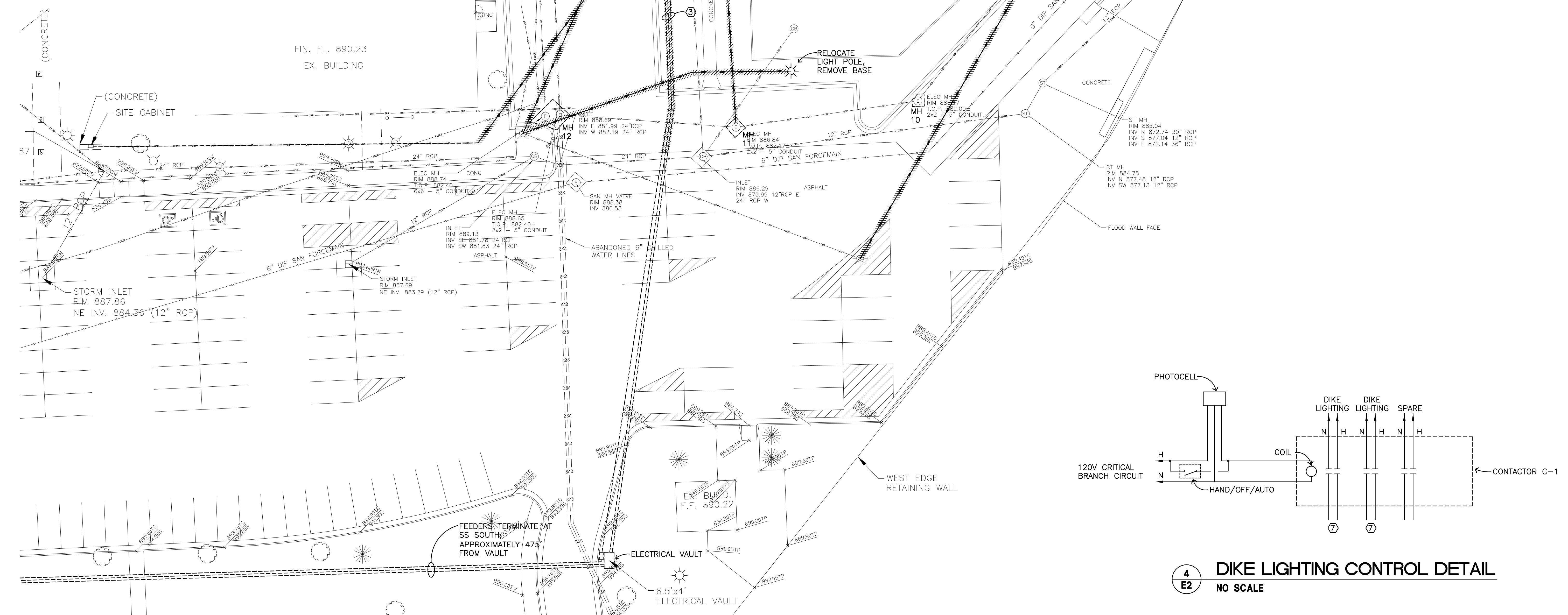
TYPE	MANUFACTURERS	CATALOG INFORMATION	Fixture Description		LAMP DATA		BALLAST DATA		INPUT WATTS		VOLTAGE		MOUNTING		REMARKS	
			No.	Type	No.	Type										
A1	LITHONIA	2SP8 SERIES	2' X 4' RECESSED FLUORESCENT FIXTURE, REGRESSED ALUMINUM DOOR FRAME HINGED AND LATCHED WITH 0.125 INCH THICK PATTERN #12 DIFFUSER.		3	28W T8 SP41	1	ELECTRONIC	85	120	RECESSED					
A2	LITHONIA	2SP8 SERIES	2' X 4' RECESSED FLUORESCENT FIXTURE, REGRESSED ALUMINUM DOOR FRAME HINGED AND LATCHED WITH 0.125 INCH THICK PATTERN #12 DIFFUSER.		3	28W T8 SP41	2	ELECTRONIC	85	120	RECESSED					
A3	LITHONIA	2SP8 SERIES	2' X 4' RECESSED FLUORESCENT FIXTURE, REGRESSED ALUMINUM DOOR FRAME HINGED AND LATCHED WITH 0.125 INCH THICK PATTERN #12 DIFFUSER.		2	28W T8 SP41	1	ELECTRONIC	58	120	RECESSED					
A4	MARK ARCHITECTURAL	MP SERIES	1' X 4' RECESSED TELESCOPIC FIXTURE, WALL TO WALL, STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, MATTE WHITE FINISH, PARABOLIC LOUVER SHIELDING.		2	28W T8 SP41	1	ELECTRONIC	58	120	RECESSED					
B1	LITHONIA	2AV	2' X 4' RECESSED BASKET FLUORESCENT FIXTURE, STRAIGHT BLADE WHITE LOUVER, ROUND HOLES DIFFUSER.		3	28W T8 SP41	1	ELECTRONIC	85	120	RECESSED					
B2	LITHONIA	2AV	2' X 4' RECESSED BASKET FLUORESCENT FIXTURE, STRAIGHT BLADE WHITE LOUVER, ROUND HOLES DIFFUSER.		3	28W T8 SP41	2	ELECTRONIC	85	120	RECESSED					
C1	HALO	H4 LED SERIES	4 INCH LED RECESSED DOWNLIGHT, ALUMINUM CONSTRUCTION, 4000 DEGREE COLOR TEMPERATURE, COLOR RENDERING INDEX OF 80, INITIAL LUMEN OUTPUT OF 600. WET LISTED. WHITE REFLECTOR WITH WHITE TRIM RING.			INCLUDED			30	120	RECESSED					
C2	PORTFOLIO	LD620 SERIES	6 INCH LED DOWNLIGHT, CLEAR SPECULAR REFLECTOR, WHITE TRIM, 2000 DELIVERED LUMENS.			INCLUDED			35	120	RECESSED					
E1	LITHONIA	LE SERIES	L.E.D. EXIT LIGHT, SOLID, DIE-CAST ALUMINUM HOUSING, WHITE ALUMINUM FACING WITH WHITE HOUSING. UNIVERSAL MOUNTING. AC ONLY. RED LETTERING.			INCLUDED			1.5	120	UNIVERSAL					
E2	LITHONIA	LE SERIES	L.E.D. EXIT LIGHT SOLID, DIE-CAST ALUMINUM HOUSING, WHITE ALUMINUM FACING WITH WHITE HOUSING. UNIVERSAL MOUNTING. DOUBLE FACE. AC ONLY. RED LETTERS.			INCLUDED			1.5	120	UNIVERSAL					
E3	LITHONIA	LV SERIES	SINGLE FACE LED EXIT LUMINAIRE, DIE CAST ALUMINUM HOUSING, WHITE BODY AND CANOPY, POLYCARBONATE COVER, STENCIL FACE, RED LETTERS, AC ONLY.			INCLUDED			1.5	120	UNIVERSAL					
G1	SCOTT	53780 SERIES	12 INCH WALL SCONCE, ADA COMPLIANT, BRUSHED ALUMINUM FINISH, SAND BLASTED ACRYLIC SHEILD.		2	26W DTT SP41	1	ELECTRONIC								



METER CONDUIT PULL BOX DETAIL



MEDIUM VOLTAGE PULL BOX DETAIL



SITE PLAN - ELECTRICAL DEMOLITION



**Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102**



IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
SOLIEN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants



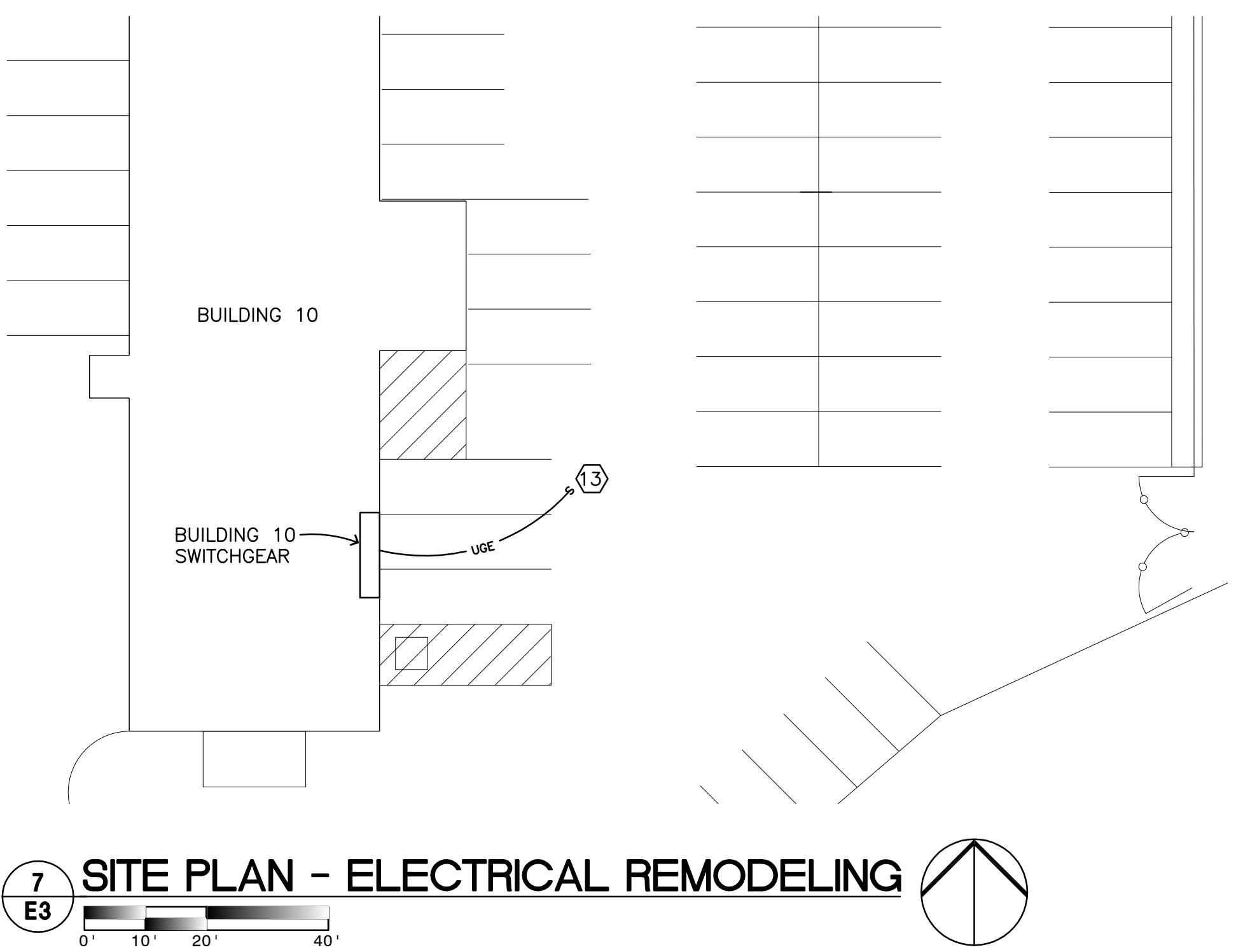
Drawing Title

**SITE PLAN - ELECTRICAL
DEMOLITION**

Project Title

**VA MEDICAL CENTER
BUILDING 1
ADDITIONAL OUTPATIENT TREATMENT SPACE**

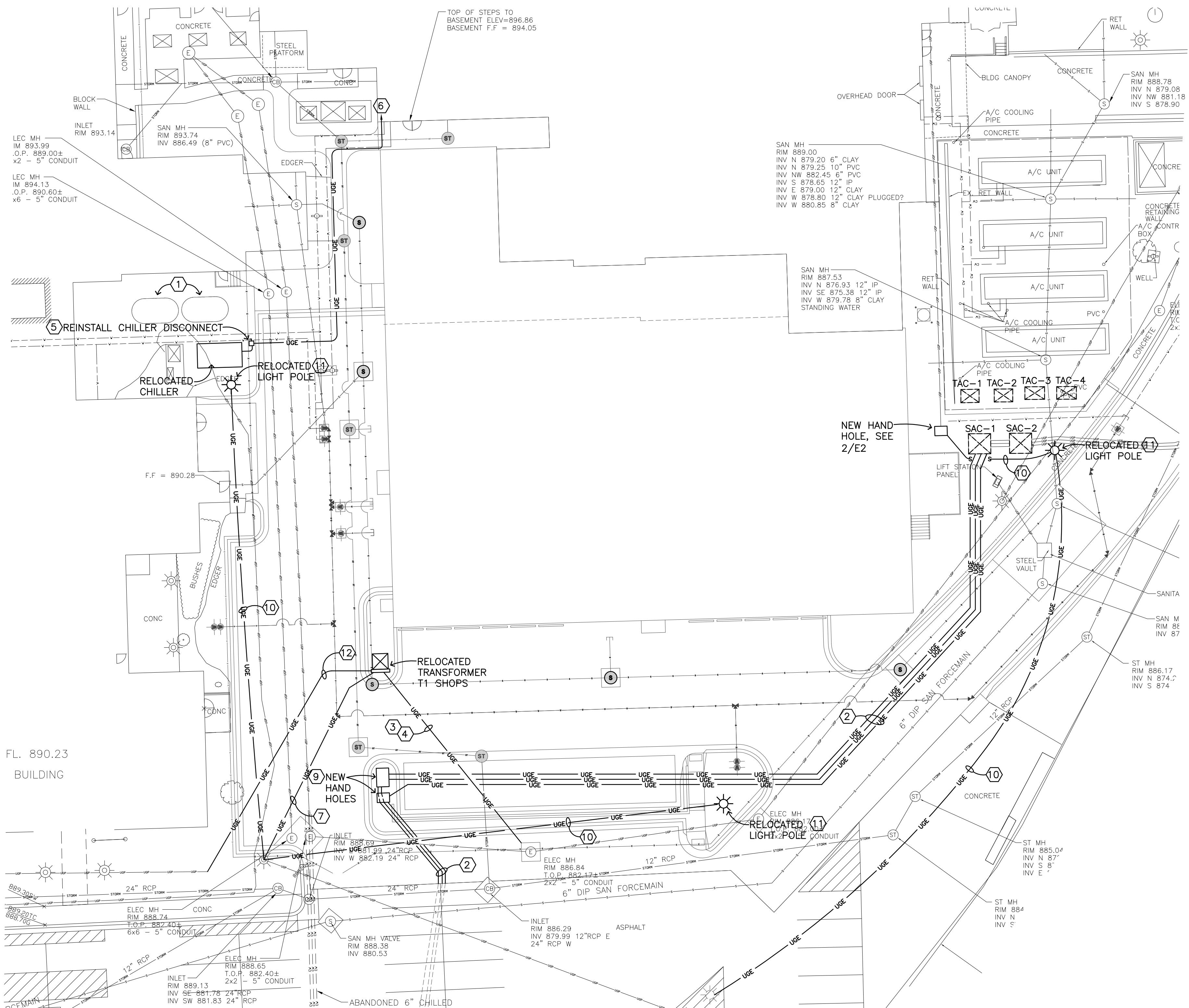
VA Project No. 437-310	Contract No. VA263-P-0967 VA263-C-	Designed By MB	Checked By MB	Drawn By TP	Drawing No. E2
Building No. 1	AutoCAD File Name 10-084 E2.DWG	Location VA MEDICAL CENTER FARGO, ND			Dwg. 68 of 83



SITE PLAN - ELECTRICAL REMODELING

E3

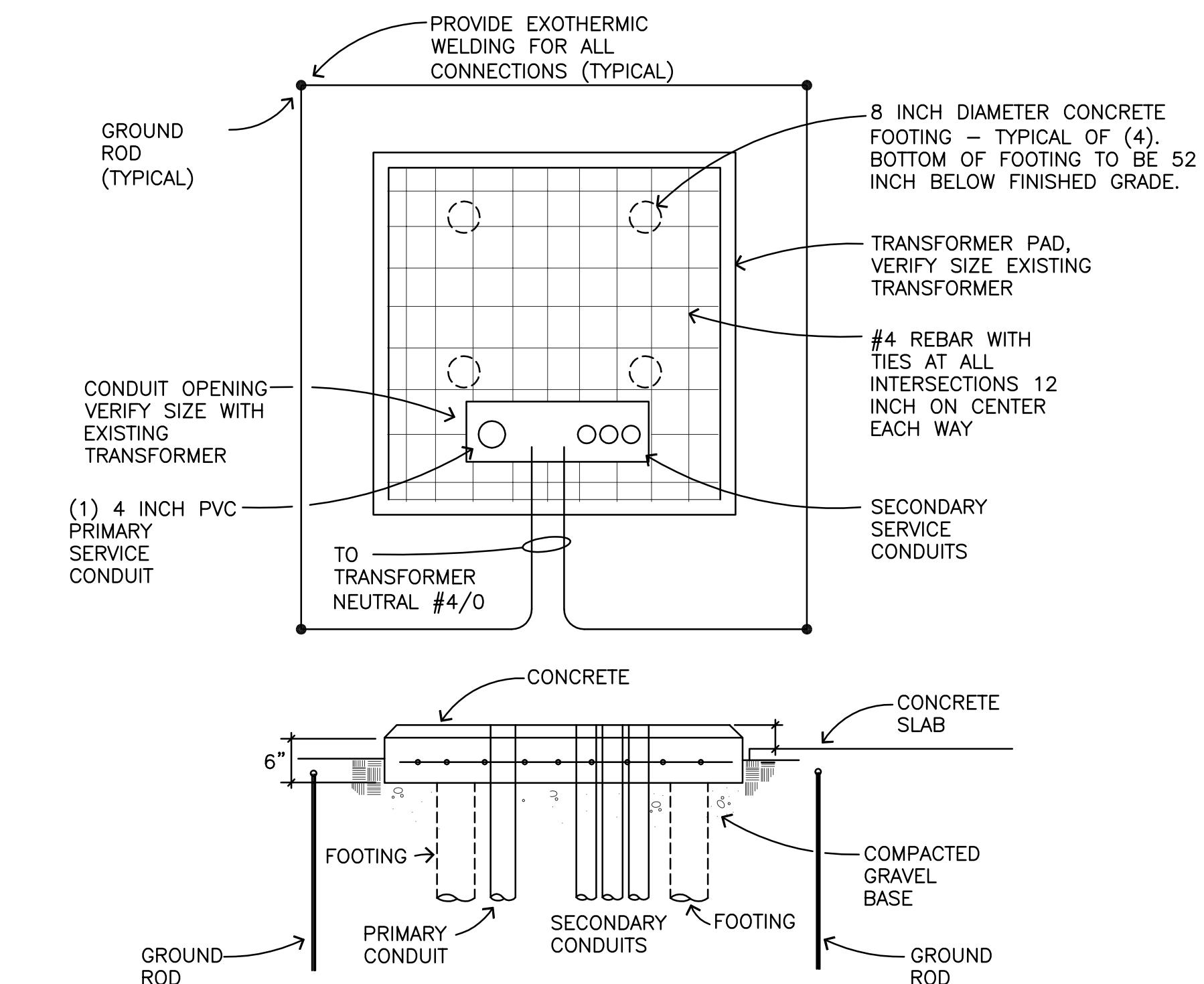
0' 10' 20' 40'



SITE PLAN - ELECTRICAL REMODELING

E3

0' 10' 20' 40'

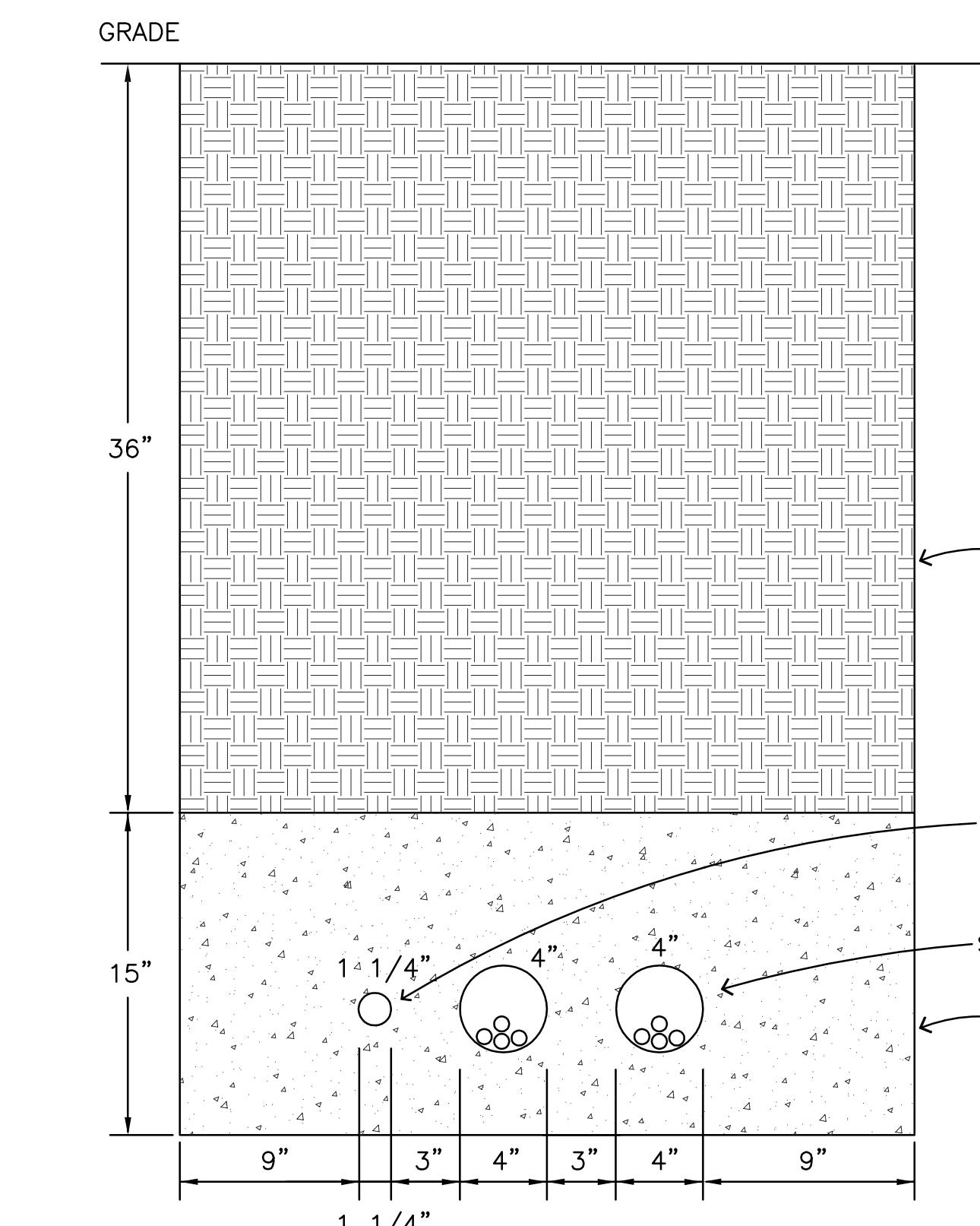


NEW TRANSFORMER T1 PAD DETAIL

E3

NO SCALE

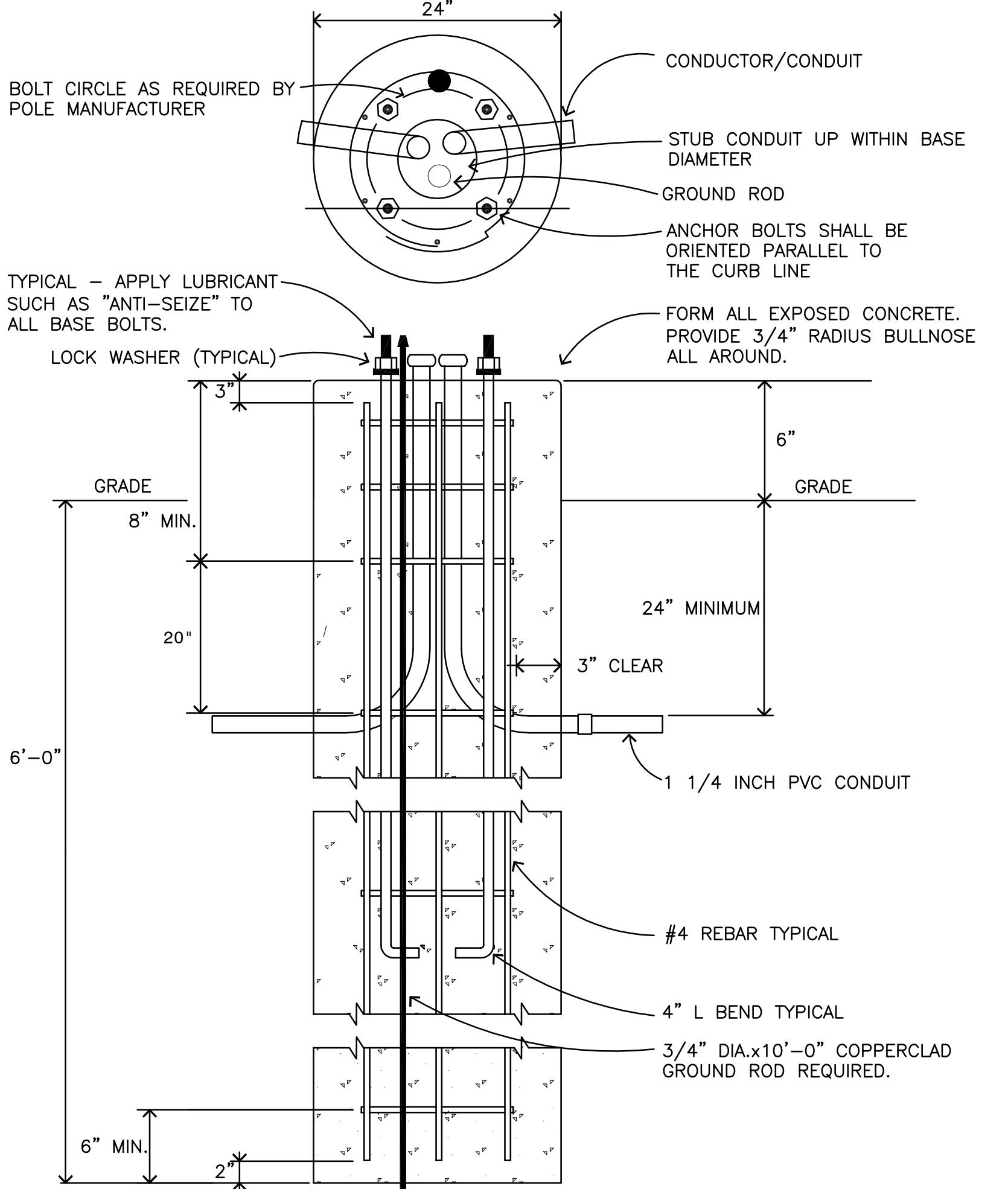
- PLAN NOTES:**
- ① PROVIDE 1 INCH CONDUIT TO ROOM B4B. CONNECT UNDERGROUND FUEL OIL STORAGE TANK MONITORING/ALARM. COORDINATE WITH MECHANICAL CONTRACTOR.
 - ② SEE DUCT BANK DETAIL 5/E3 AND REVISED ELECTRICAL ONE LINE DIAGRAM 1/E14.
 - ③ RE-FEED TRANSFORM T1 SHOPS (FORMERLY T38).
 - ④ SEE 5KV ONE LINE DIAGRAM 1/E15 AND DUCT BANK DETAIL 2/E3 AND TRANSFORMER PAD DETAIL 6/E3.
 - ⑤ MOUNT DISCONNECT ON NEW MOUNTING STRUCTURE. STRUCTURE TO MATCH EXISTING.
 - ⑥ PROVIDE A 400/3 BREAKER IN 46-EBE IN ROOM 45A TO RE-FEED CHILLER, SEE 4/E3.
 - ⑦ RE-FEED EXISTING LIGHT FIXTURE FROM RELOCATED T1 TRANSFORMER WITH 1 1/4 INCH CONDUIT PLUS 2#6 + #6 GROUND.
 - ⑧ PROVIDE NEW 400/3 BREAKER IN EXISTING SWITCHGEAR.
 - ⑨ PROVIDE NEW HAND HOLES TO MATCH EXISTING QUAZIE PG SERIES. SEE DETAIL 2/E2 AND 3/E2.
 - ⑩ 1 1/4 INCH CONDUIT WITH 2#6 + #6 GROUND.
 - ⑪ SEE DETAIL 3/E3.
 - ⑫ RECONNECT EXISTING SITE CABINET, EXTEND EXISTING CONDUCTORS IN NEW CONDUIT TO NEW TRANSFORMER LOCATION.
 - ⑬ PROVIDE 100/3 PHASE BREAKER IN EXISTING BUILDING 10 SWITCHGEAR TO PROVIDE POWER TO TEMPORARY SHOPS TRAILER. ROUTE CONDUIT AND CONDUCTORS TO FROM SWITCHGEAR TO TRAILER AND PROVIDE SERVICE DISCONNECT AS REQUIRED. TRAILER TO BE LOCATED ON THE EAST SIDE OF BUILDING 10.



25 KV DUCT BANK DETAILS

E3

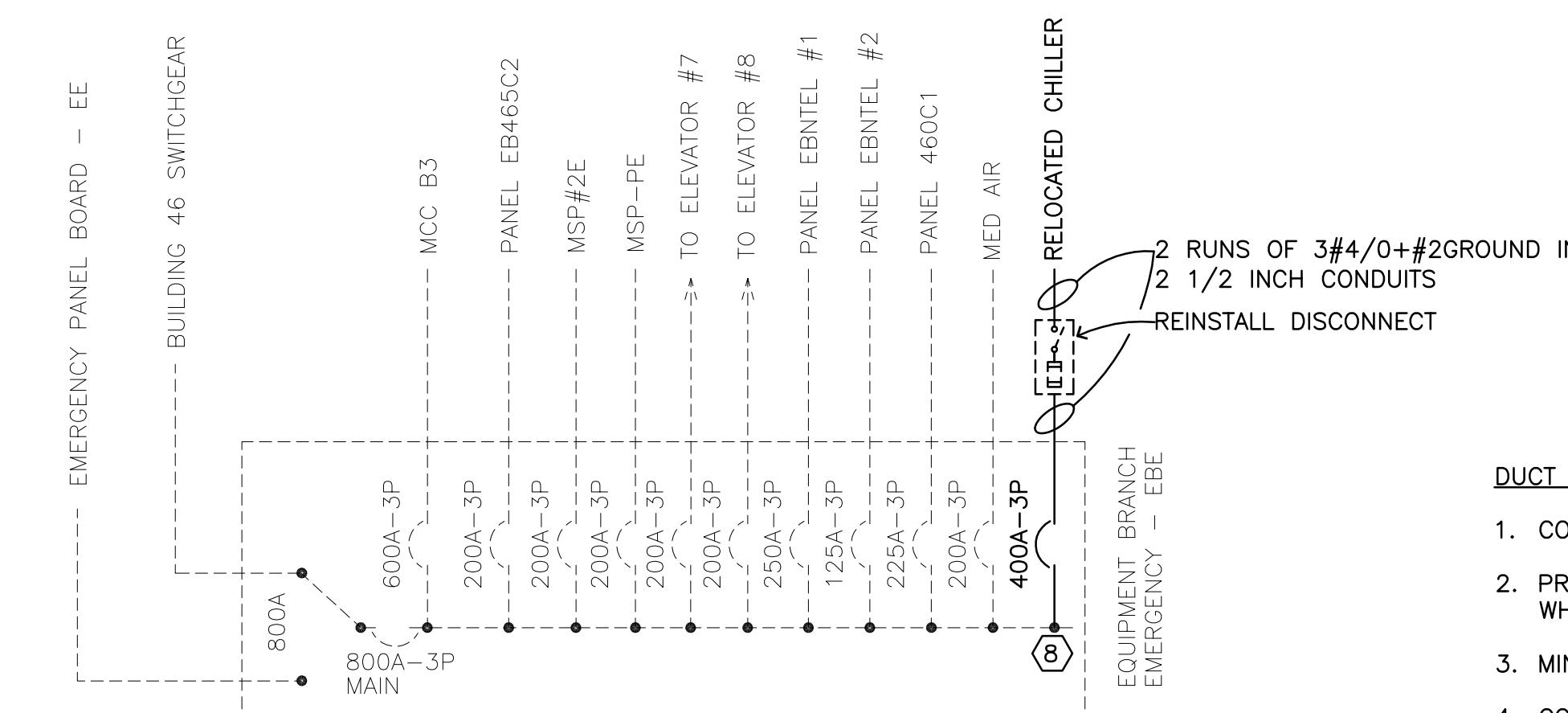
NO SCALE



CONCRETE BASE DETAIL

E3

NO SCALE



PARTIAL BUILDING 46 ONE LINE DIAGRAM

E3

NO SCALE



E3

NO SCALE

Revisions	Date

**Dept. of Veterans Affairs
Medical Center**
2101 Elm Street North
Fargo, ND 58102

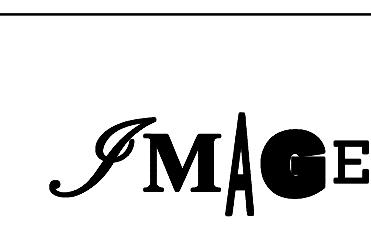
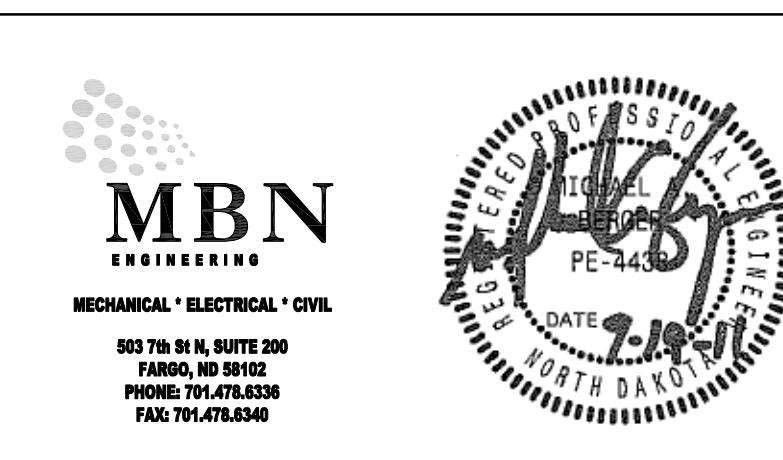


IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
SOLLEN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants



Drawing Title:
SITE PLAN - ELECTRICAL REMODELING

VA Project No. 437-310 Contract No. VA263-P-0967
Building No. 1 AutoCAD File Name 10-084 E3.DWG

Project Title:
**VA MEDICAL CENTER
BUILDING 1
ADDITIONAL OUTPATIENT TREATMENT SPACE**

Designed By MB Checked By MB Drawn By TP
Drawing No. E3 Location VA MEDICAL CENTER
FARGO, ND

Date **SEPTEMBER 19, 2011**
AS NOTED
Drawing No. **E3**
Dwg. 69 of 83

GENERAL NOTES:
1. ALL EQUIPMENT, FIXTURES, ETC. SHOWN ON THE DEMOLITION PLANS SHALL BE REMOVED UNLESS NOTED OTHERWISE.

PLAN NOTES:
① ITEMS WITHIN BOUNDARY SHOWN HATCHED ARE TO BE DEMOLISHED, ALL OTHER ITEMS WITHIN BOUNDARY ARE TO REMAIN. SEE 2/E8 FOR ELECTRICAL REVISIONS IN THIS AREA.

② DISCONNECT AND REMOVE PANEL AND CONDUCTORS BACK TO MCC-3B BUILDING 46.

③ SEE SPECIFICATION SECTION 26 05 12 FOR PHASING REQUIREMENTS IN THIS AREA.

④ SALVAGE F/A ANNUNCIATOR PANEL, TURN OVER TO OWNER.

⑤ REMOVE BACKBONE CABLE BACK TO SOURCE OF SUPPLY.

⑥ DISCONNECT METER FROM EXISTING SWITCHGEAR AND RECONNECT TO NEW SWITCHGEAR.

⑦ DISCONNECT EXISTING MASTER MEDICAL GAS ALARM PANEL. PROVIDE TEMPORARY CONNECTION TO PANEL AS REQUIRED IN THE HALLWAY TO THE NORTH, SEE SHEET P4. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.

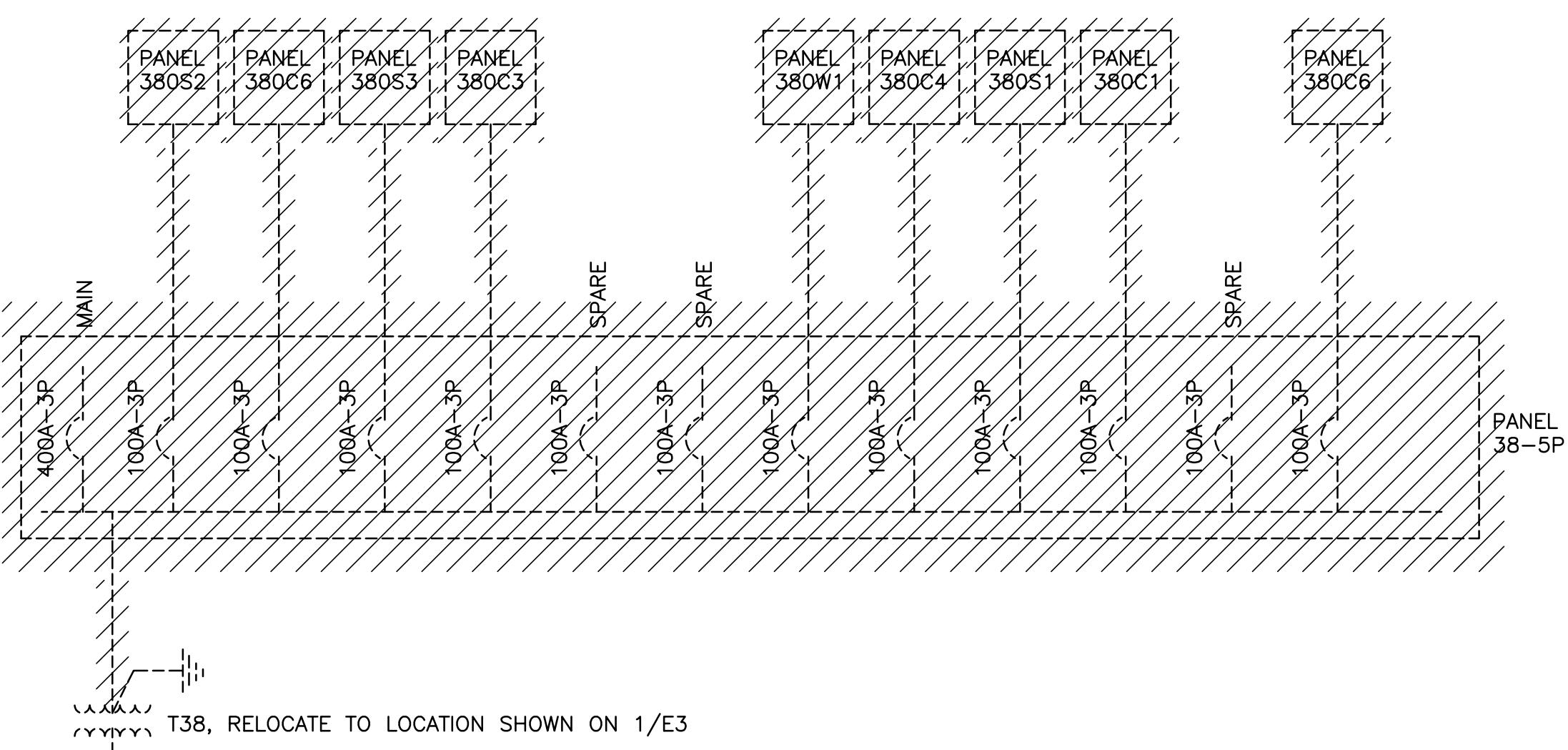
⑧ PROVIDE CONNECTION TO TEMPORARY AIR HANDLING UNIT, ROUTE 2 INCH CONDUIT WITH #31 PLUS #6 GROUND TO PANEL 10E6P IN MECHANICAL ROOM 61E. PROVIDE NEW 125/3 BREAKER IN PANEL 10E6P.

⑨ PROVIDE CONNECTION TO TEMPORARY ELECTRICAL DUCT HEATER, ROUTE 2 INCH CONDUIT WITH #31 PLUS #6 GROUND TO PANEL 10E6P IN MECHANICAL ROOM 61E. PROVIDE NEW 125/3 BREAKER IN PANEL 10E6P.

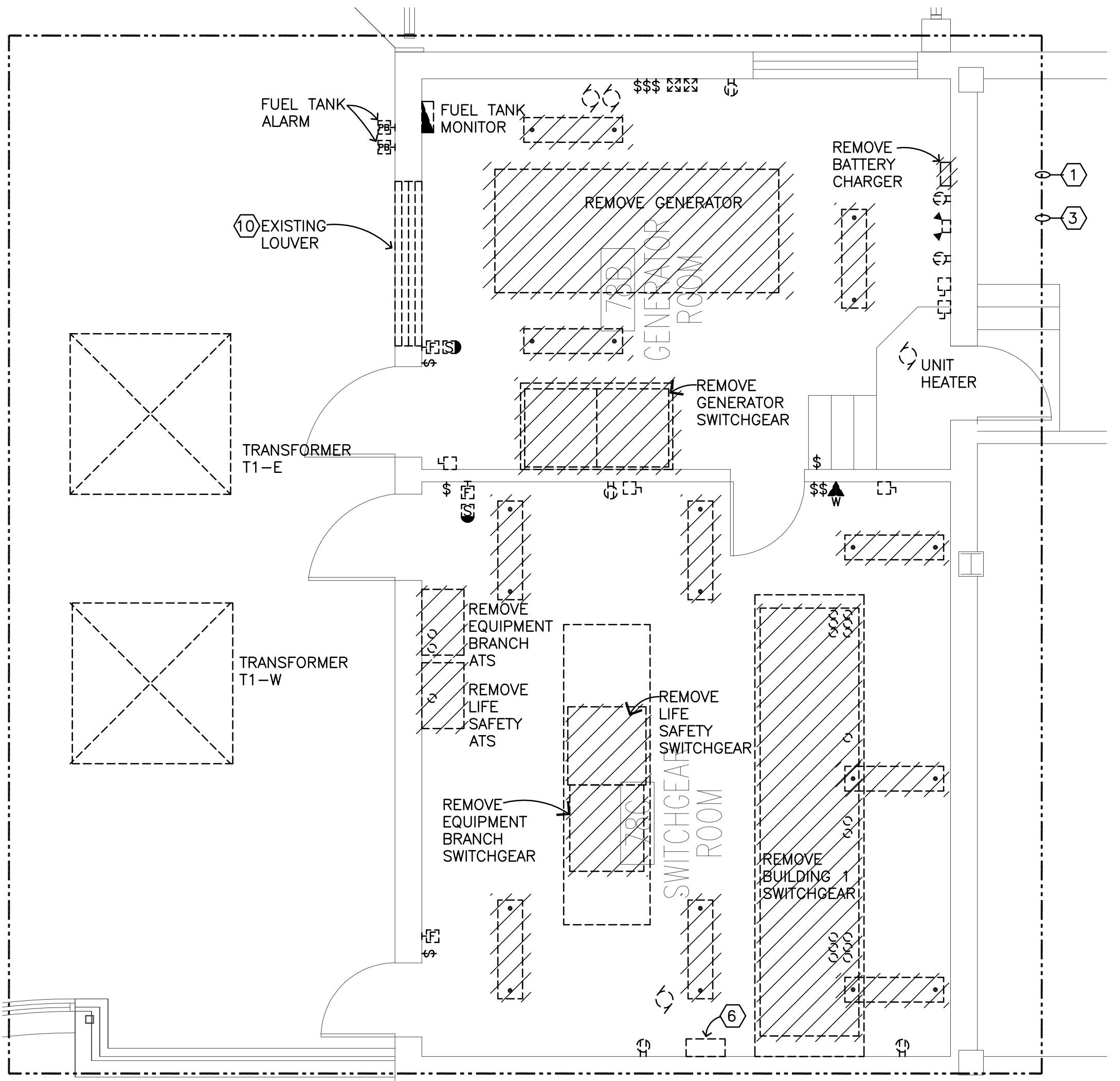
⑩ ELECTRICAL CONTRACTOR TO REMOVE LOUVER FOLLOWING THE REMOVAL OF DUCTWORK BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO REINSTALL LOUVER UPON SETTING OF NEW GENERATOR.

⑪ DENTAL PUMPS TO BE RELOCATED, SEE PLAN NOTE 12.

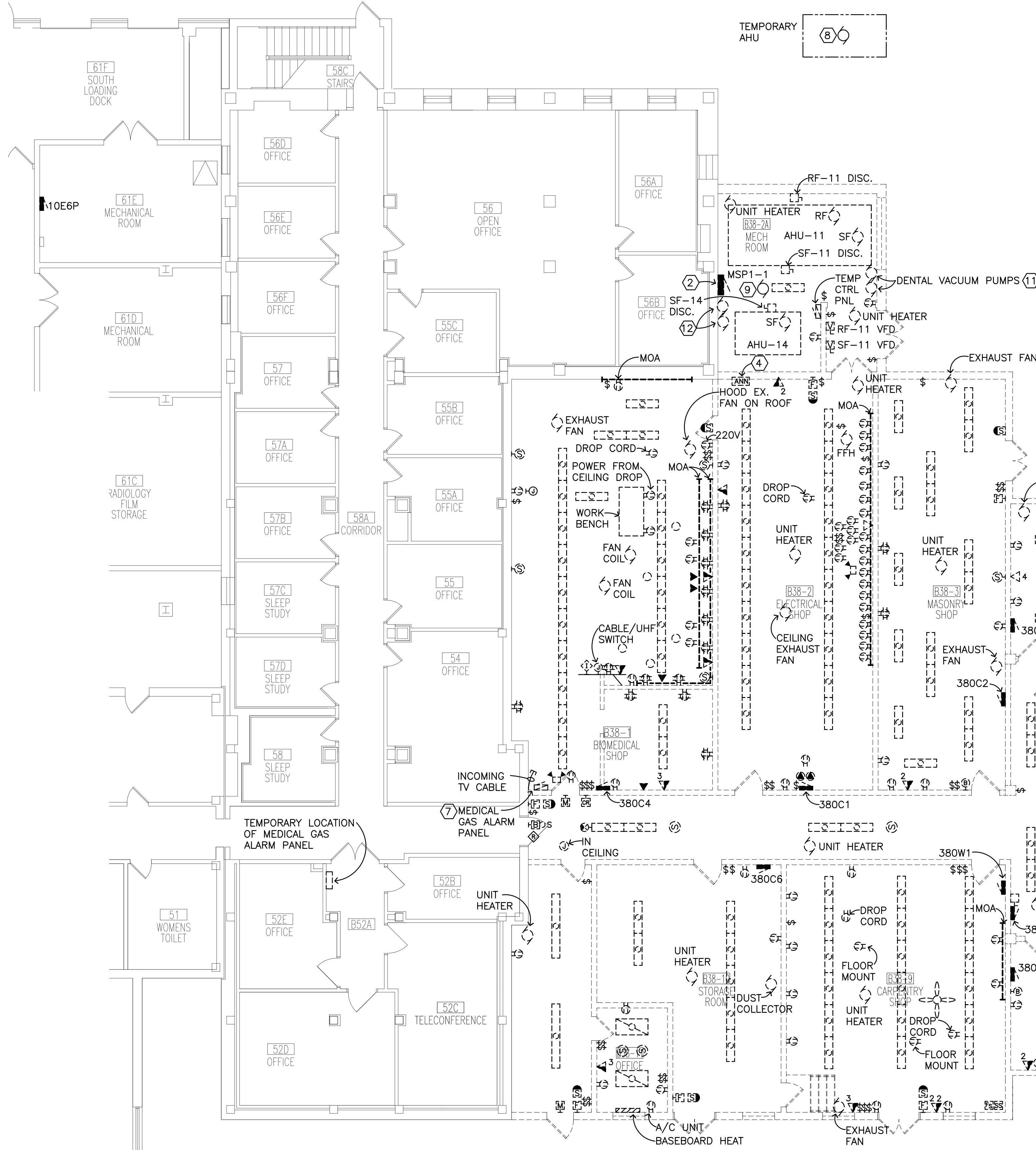
⑫ PROVIDE TEMPORARY CONNECTION TO RELOCATED DENTAL VACUUM PUMPS WHILE THE NEW ADDITION IS BEING CONSTRUCTED. VERIFY LOCATIONS WITH MECHANICAL CONTRACTOR.

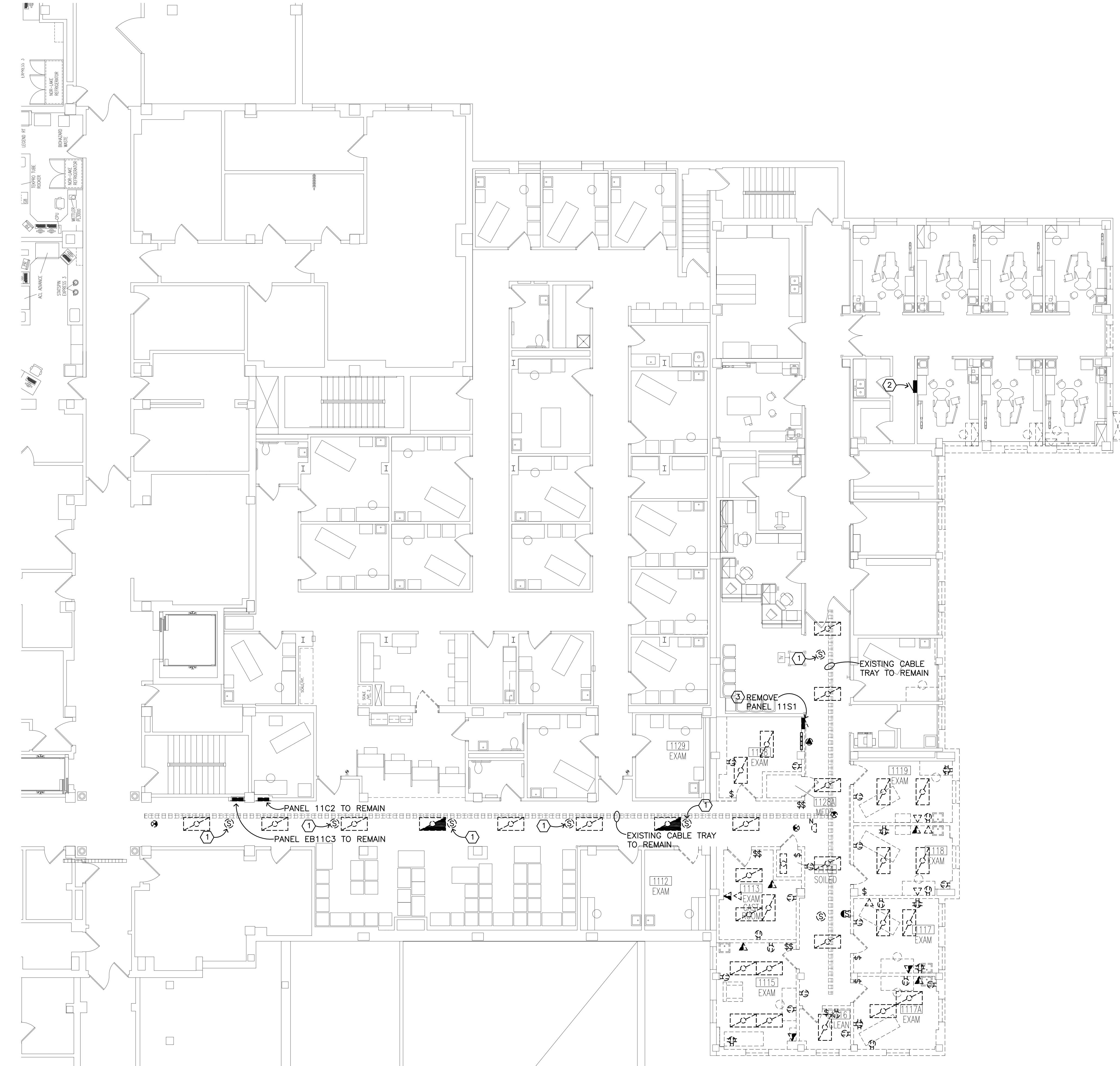


3 EXISTING ELECTRICAL ONE-LINE DIAGRAM - BUILDING 38
E4 NO SCALE



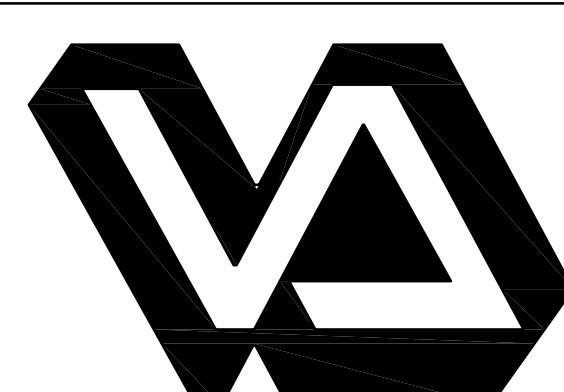
2 BASEMENT DEMOLITION PLAN - ELECTRICAL
E4





1 E5 FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

Revisions	Date

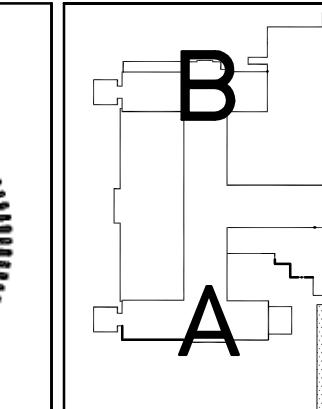


Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102



IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

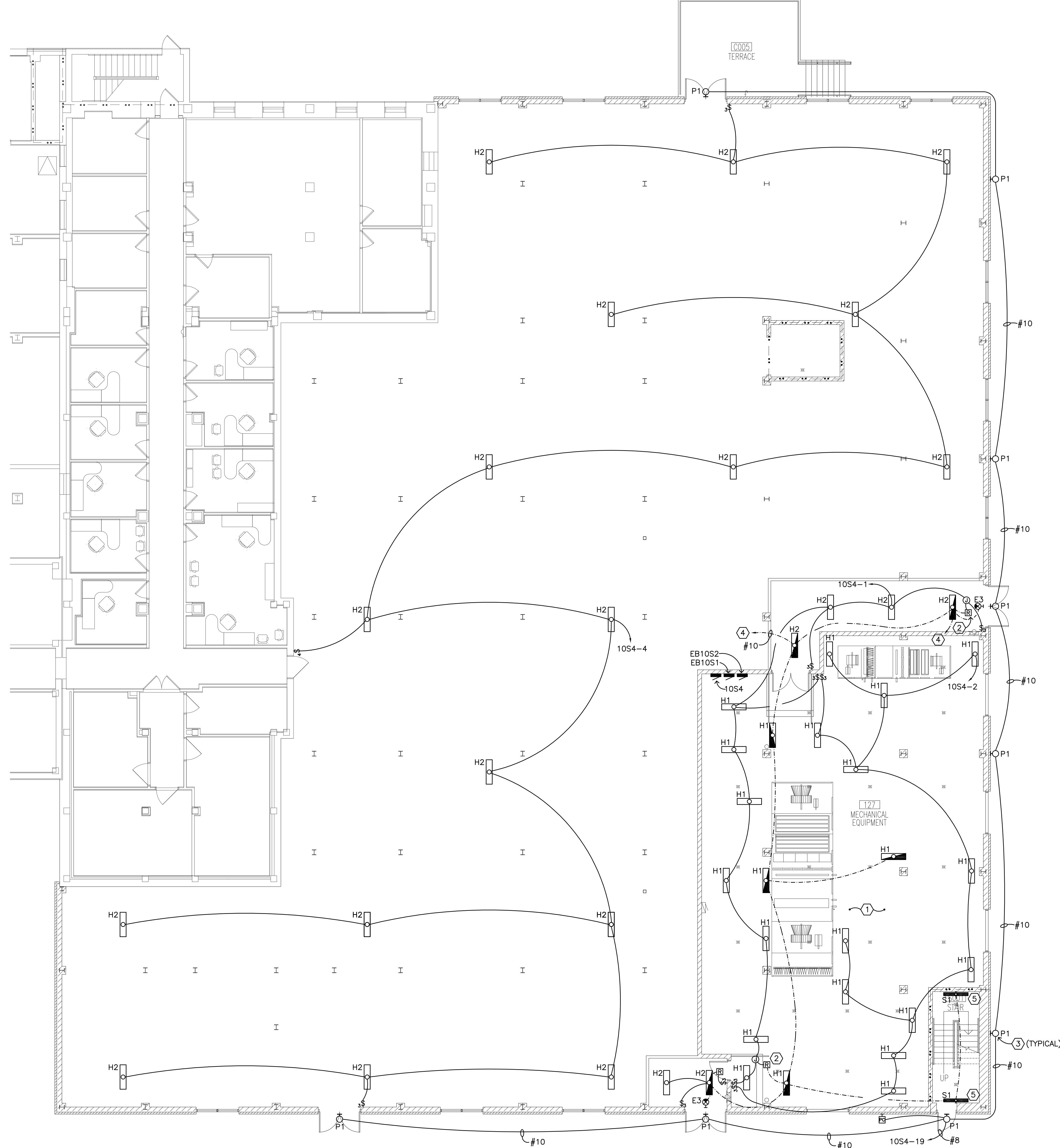
IMAGE GROUP INC., Architecture & Interiors
SOLEN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants



Drawing Title		Project Title	
FIRST FLOOR DEMOLITION PLAN - ELECTRICAL		VA MEDICAL CENTER BUILDING 1 ADDITIONAL OUTPATIENT TREATMENT SPACE	
VA Project No.	Contract No.	Designed By	Date
437-310	VA263-P-0967 VA263-C-	MB	SEPTEMBER 19, 2011 AS NOTED

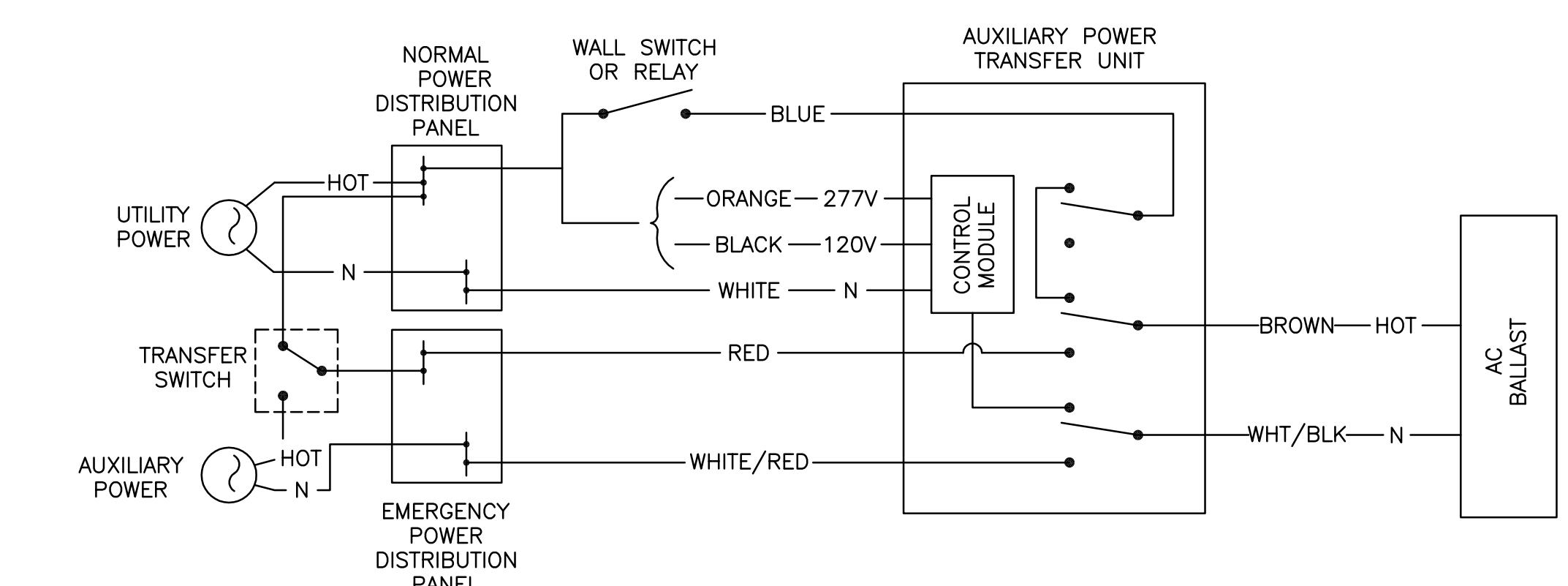
Building No.	AutoCAD File Name	Location
1	10-084 E5.DWG	VA MEDICAL CENTER FARGO, ND

Drawing No.	TP	TP
E5		



GENERAL NOTES:
1. MOUNT ALL SURFACE MOUNTED FIXTURES (TYPES H1, H2, AND H3) AT 9'-0" AFF TO THE BOTTOM OF THE FIXTURES UNLESS NOTED OTHERWISE.

- PLAN NOTES:**
- (1) COORDINATE FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT. ADDITIONAL FIXTURES MAY BE REQUIRED TO PROVIDE ADEQUATE LIGHT.
 - (2) EMERGENCY LIGHTING RELAY, SEE DETAIL 2/E6.
 - (3) SEE ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS.
 - (4) CONNECT TO NEAREST ADEQUATE LIFE SAFETY CIRCUIT.
 - (5) LIGHT FIXTURE TO BE UNSWITCHED AND REMAIN ON AT ALL TIMES.



NOTE:
THE WALL SWITCH IS WIRED TO THE RELAY TO CONTROL WHETHER THE FIXTURE IS ON OR OFF. THE RELAY IS INTENDED TO PROVIDE THE FIXTURE POWER FROM A NORMAL PANEL DURING NORMAL OPERATING CONDITIONS. IN THE EVENT OF LOSS OF POWER, THE RELAY IS TO PROVIDE POWER FROM A LIFE SAFETY PANEL NO MATTER THE POSITION OF THE WALL SWITCH. WHEN NORMAL POWER RETURNS, THE RELAY IS TO RETURN NORMAL POWER TO THE FIXTURE.

**2 E6 EMERGENCY RELAY ONE-LINE DIAGRAM
NO SCALE**

1 BASEMENT REMODELING PLAN - LIGHTING **E6**

Revisions	Date

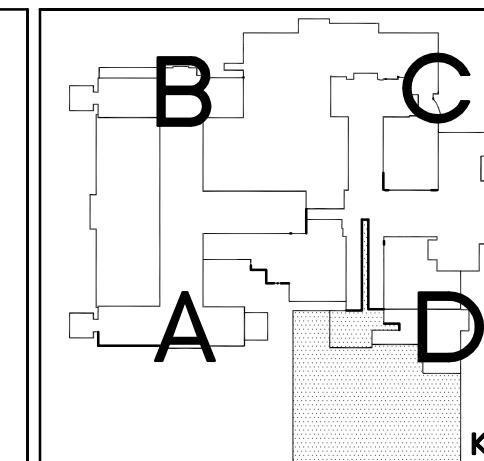
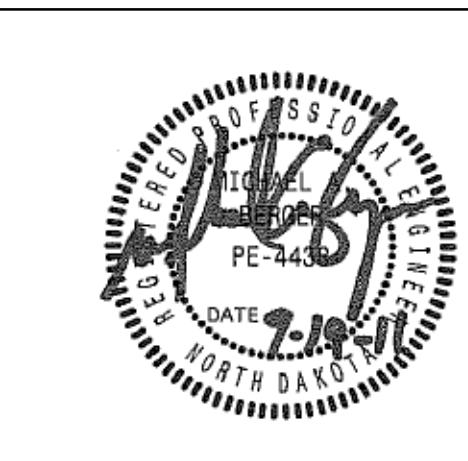


Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102



IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
SOLEN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants



Drawing Title
BASEMENT REMODELING PLAN - LIGHTING
VA Project No. **437-310** Contract No. **VA263-P-0967**
Building No. **1** AutoCAD File Name **10-084 E6.DWG**

Project Title
VA MEDICAL CENTER BUILDING 1 ADDITIONAL OUTPATIENT TREATMENT SPACE
Designed By **MB** Checked By **MB** Drawn By **TP**
Drawing No. **E6** Location **VA MEDICAL CENTER FARGO, ND**

Date **SEPTEMBER 19, 2011**
AS NOTED
Drawing No. **E6**
Dwg. 72 of 83



1 E7
FIRST FLOOR REMODELING PLAN - LIGHTING
0' 4' 8' 16'

Revisions	Date

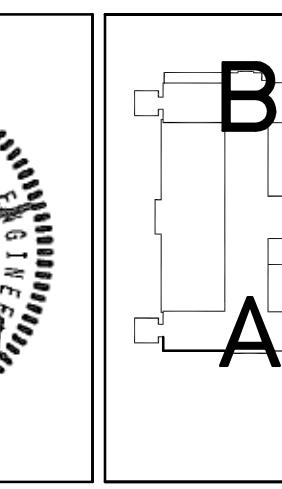


Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102



IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
SOLEIN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants



Drawing Title
**FIRST FLOOR REMODELING
PLAN - LIGHTING**

VA Project No.	Contract No.
437-310	VA263-P-0967
Building No.	VA263-C
1	AutoCAD File Name
	10-084 E7.DWG

Project Title
**VA MEDICAL CENTER
BUILDING 1
ADDITIONAL OUTPATIENT TREATMENT SPACE**

Designed By	Checked By	Drawn By
MB	MB	TP
Drawing No.		
E7		

Location VA MEDICAL CENTER
FARGO, ND

Date **SEPTEMBER 19, 2011**

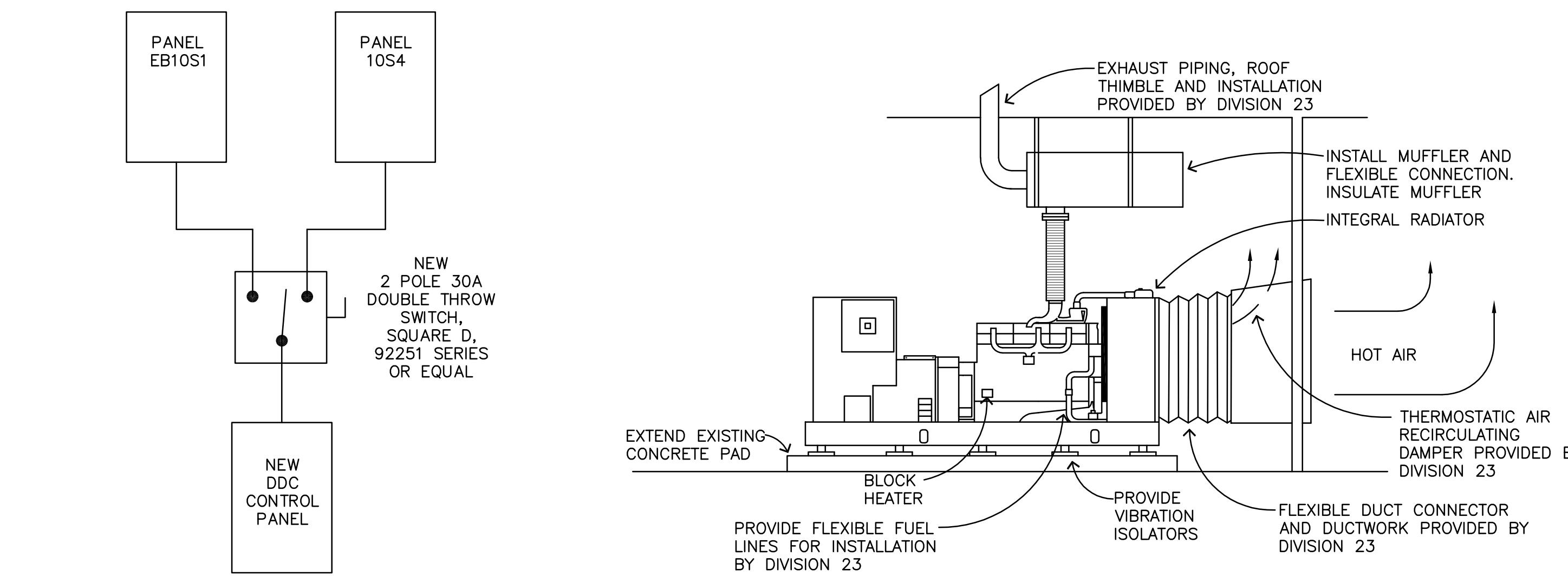
AS NOTED

Dwg. 73 of 83

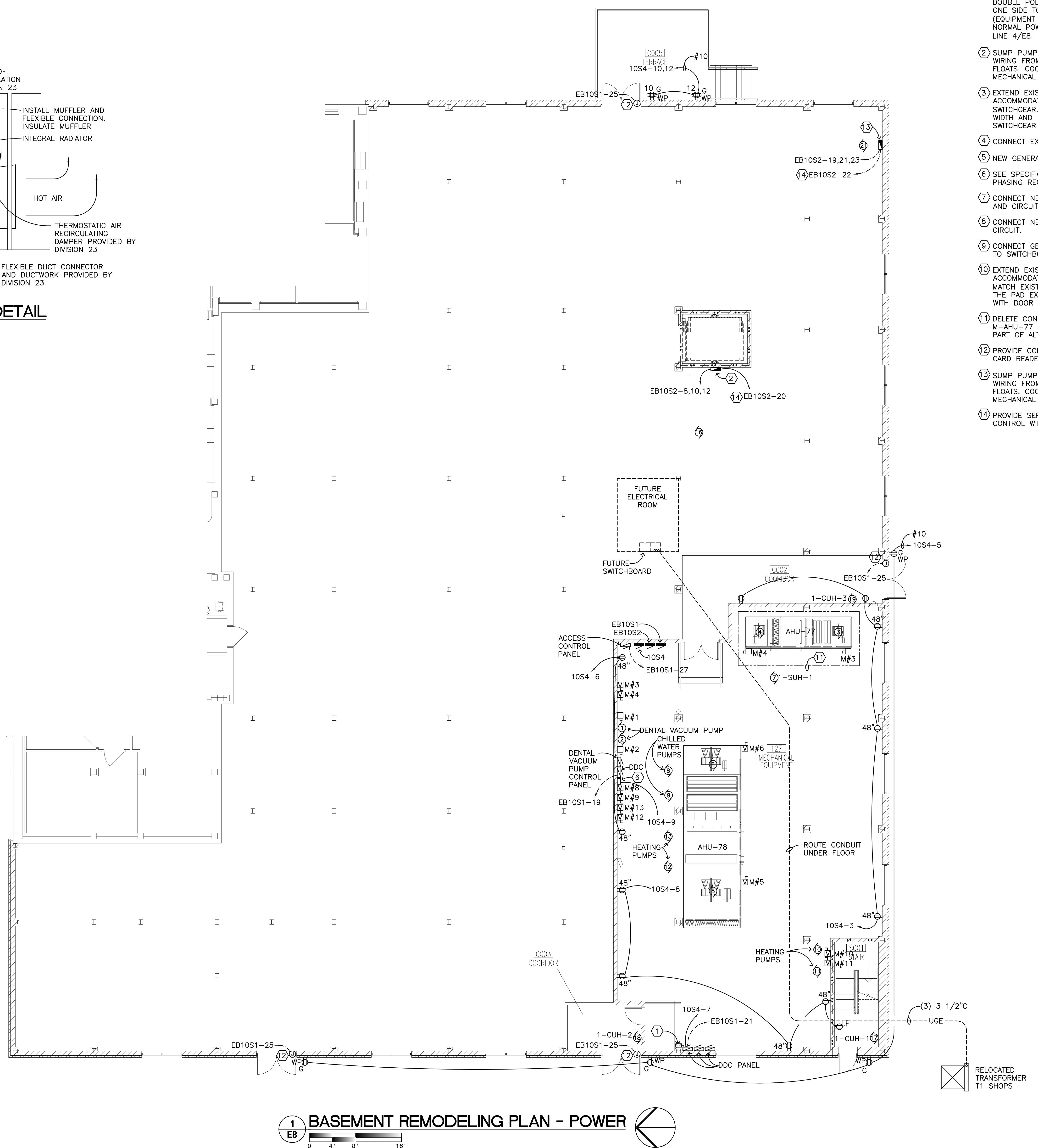
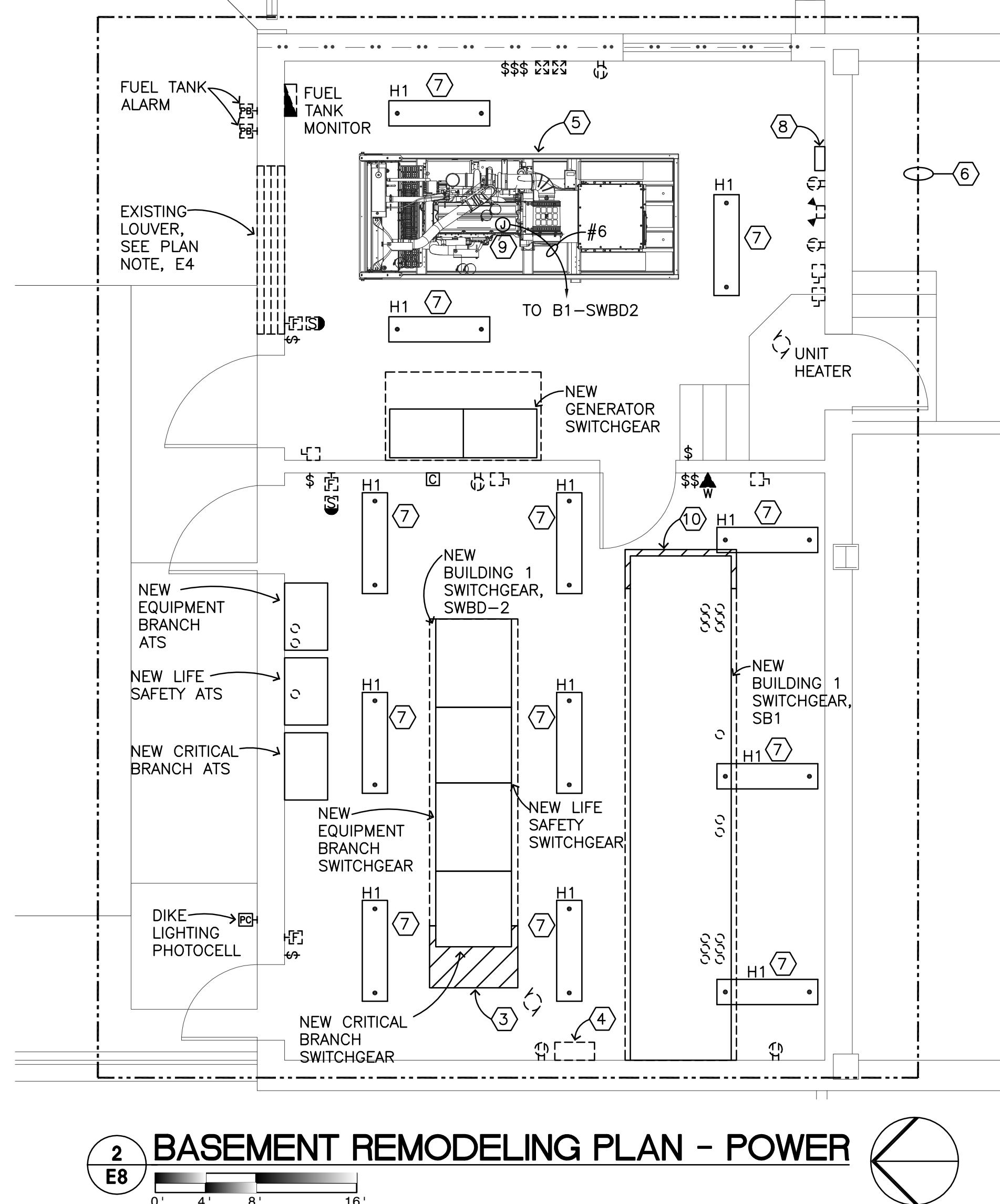
Department of
Veterans Affairs

- PLAN NOTES:
- ① CONNECT TO NEAREST RECEPTACLE CIRCUIT.
 - ② EMERGENCY LIGHTING RELAY, SEE DETAIL 2/E6.
 - ③ LIGHT FIXTURE IS TO BE UNSWITCHED AND REMAIN ON AT ALL TIMES.
 - ④ PROVIDE ROUGH IN (DOUBLE GANG BOX) FOR FUTURE LIGHT SWITCHES. PROVIDE BLANK COVER PLATE.
 - ⑤ CONNECT TO EXISTING SWITCHING AND EXISTING LIFE SAFETY CIRCUIT.
 - ⑥ CONNECT TO EXISTING SWITCHING AND NORMAL POWER CIRCUIT.

- PLAN NOTES:**
- ① PROVIDE AND INSTALL NEW 2 POLE 30A DOUBLE POLE TRANSFER SWITCH AND CONNECT ONE SIDE TO THE EMERGENCY CIRCUIT (EQUIPMENT BRANCH) AND OTHER SIDE TO NORMAL POWER CIRCUIT. SEE PARTIAL ONE LINE 4/E8.
 - ② SUMP PUMP (M#16) CONTROL PANEL. PROVIDE WIRING FROM CONTROL PANEL TO PUMPS AND FLOATS. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.
 - ③ EXTEND EXISTING CONCRETE PAD TO ACCOMMODATE NEW CRITICAL BRANCH SWITCHGEAR. PAD TO MATCH EXISTING PAD'S WIDTH AND EXTEND 6 INCHES BEYOND SWITCHGEAR LENGTH.
 - ④ CONNECT EXISTING METER TO NEW SWITCHGEAR.
 - ⑤ NEW GENERATOR, SEE DETAIL 3/E8.
 - ⑥ SEE SPECIFICATION SECTION 26 05 12 FOR PHASING REQUIREMENTS IN THIS AREA.
 - ⑦ CONNECT NEW FIXTURE TO EXISTING SWITCHING AND CIRCUITING IN ROOM.
 - ⑧ CONNECT NEW BATTERY CHARGER TO EXISTING CIRCUIT.
 - ⑨ CONNECT GENERATOR WATER JACKET HEATER TO SWITCHBOARD SWBD-2.
 - ⑩ EXTEND EXISTING CONCRETE PAD TO ACCOMMODATE NEW SWITCHGEAR. PAD TO MATCH EXISTING PAD'S WIDTH. THE LENGTH OF THE PAD EXTENSION SHALL NOT INTERFERE WITH DOOR SWING.
 - ⑪ DELETE CONNECTION TO AIR HANDLER M-AHU-77 AND ASSOCIATED DISCONNECTS AS PART OF ALTERNATE BID 3.
 - ⑫ PROVIDE CONNECTION TO POWER SUPPLY FOR CARD READER.
 - ⑬ SUMP PUMP (M#21) CONTROL PANEL. PROVIDE WIRING FROM CONTROL PANEL TO PUMPS AND FLOATS. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.
 - ⑭ PROVIDE SEPARATE DEDICATED CIRCUIT FOR CONTROL WIRING.



GENERATOR SET DETAIL
E8 NO SCALE



Revisions	Date

Dept. of Veterans Affairs Medical Center
2101 Elm Street North
Fargo, ND 58102

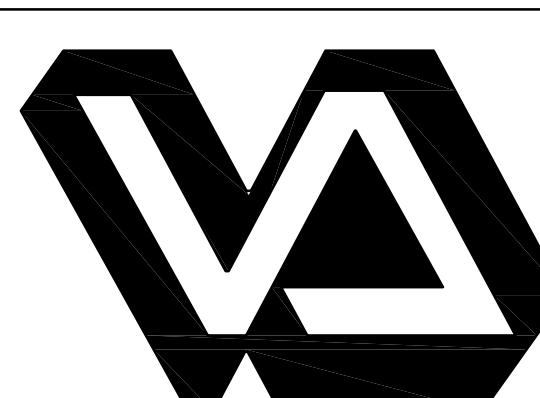
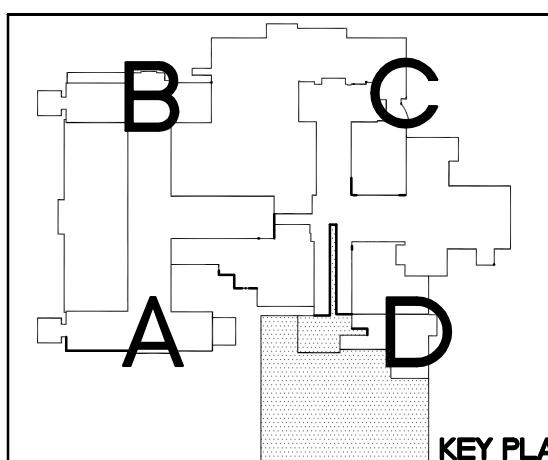


IMAGE GROUP INC.
SOLEN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants



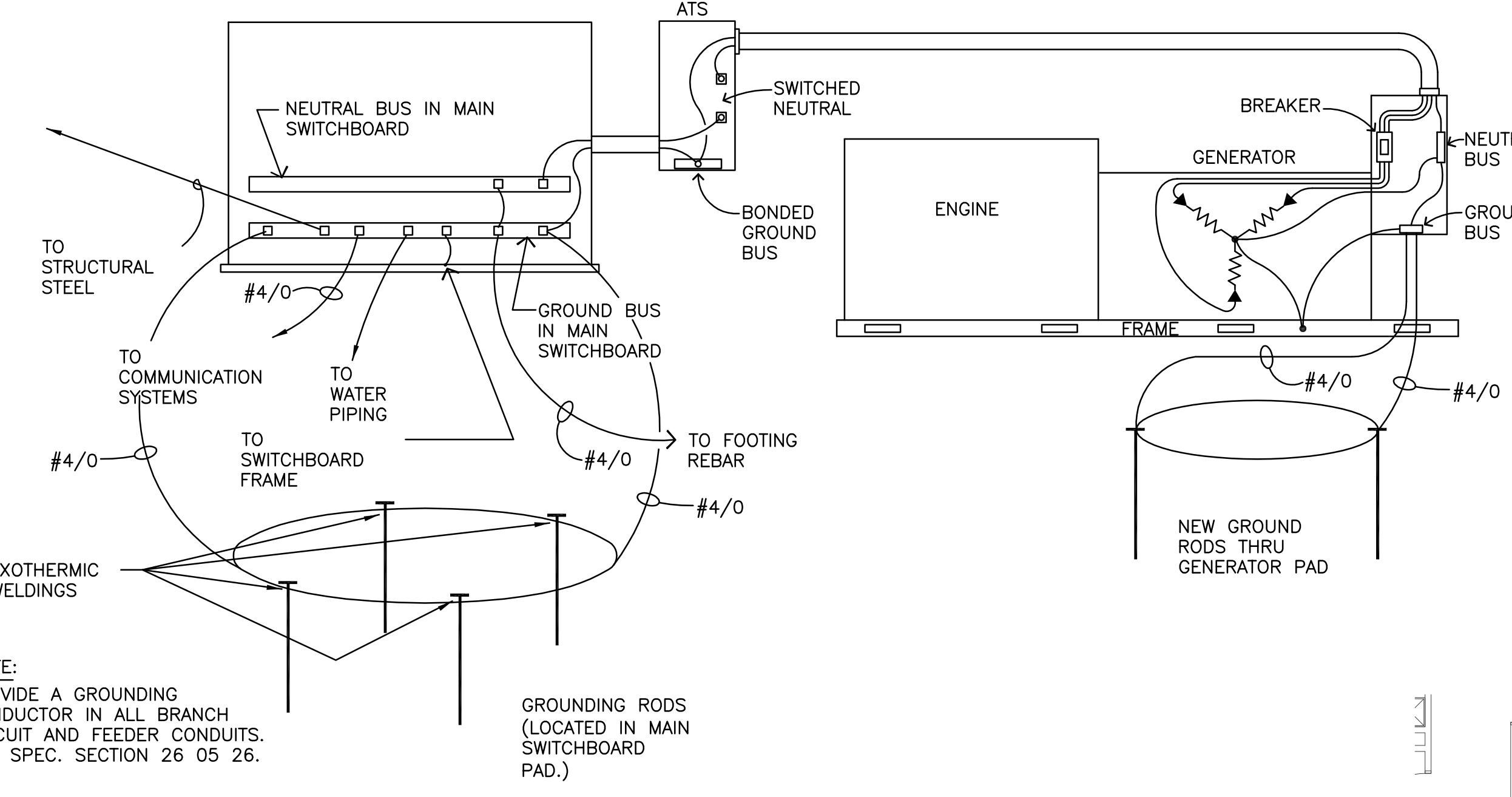
IMAGE GROUP INC., Architecture & Interiors
SOLEN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants



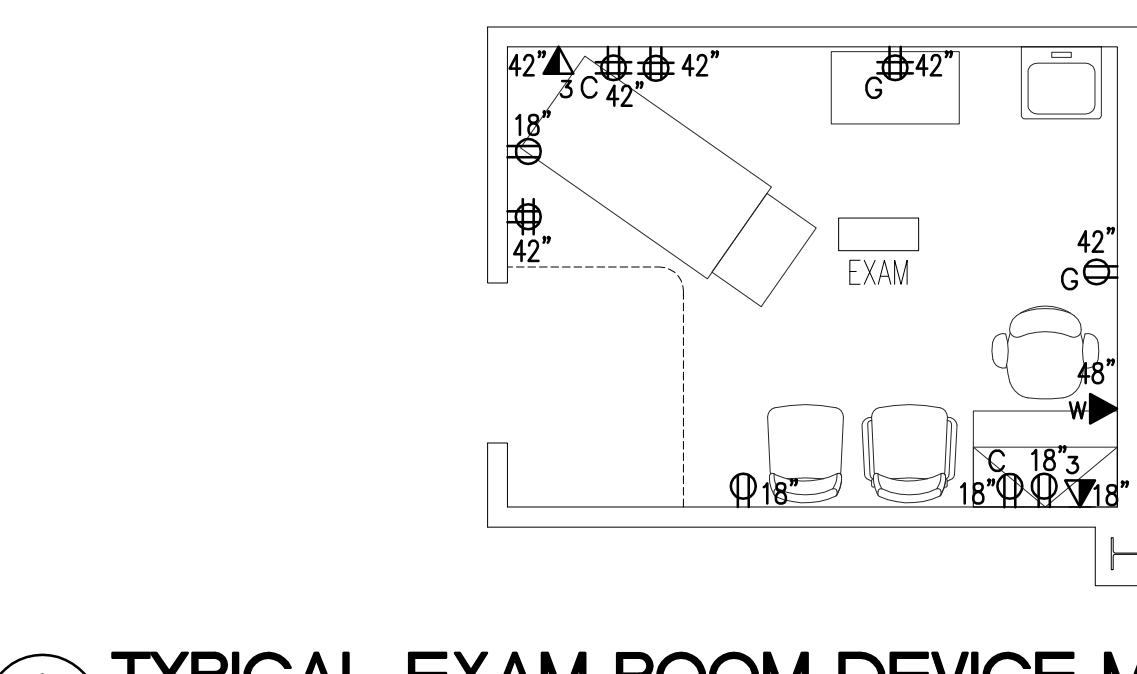
Drawing Title
BASEMENT REMODELING PLAN - POWER
VA Project No. 437-310 Contract No. VA263-P-0967
Building No. 1 AutoCAD File Name 10-084 E8.DWG

Project Title
VA MEDICAL CENTER BUILDING 1 ADDITIONAL OUTPATIENT TREATMENT SPACE
Designed By MB Checked By MB Drawn By TP
Drawing No. E8 Location VA MEDICAL CENTER FARGO, ND

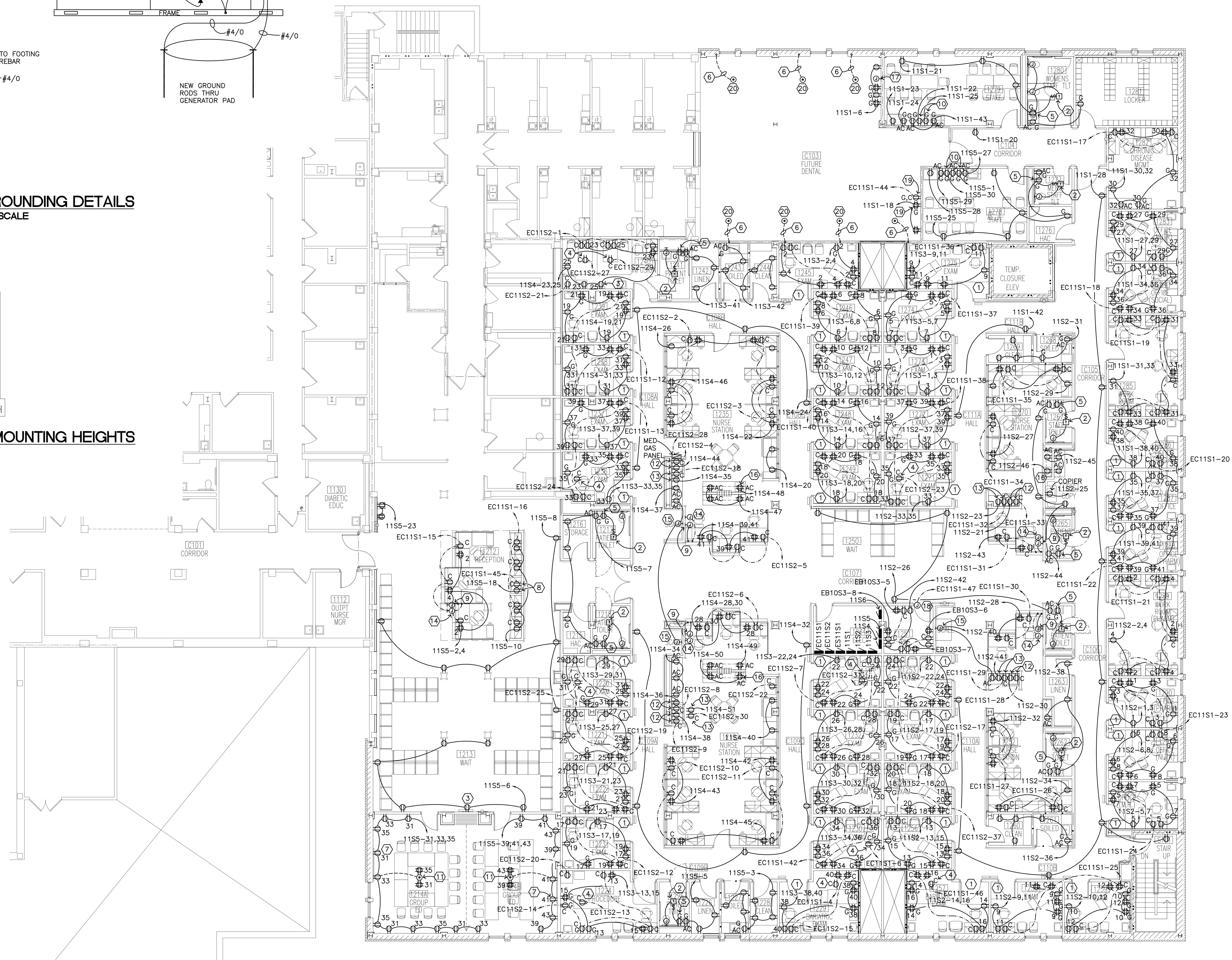
Date SEPTEMBER 19, 2011
AS NOTED
Drawing No. E8
Dwg. 74 of 83



③ E9 GROUNDING DETAILS
NO SCALE

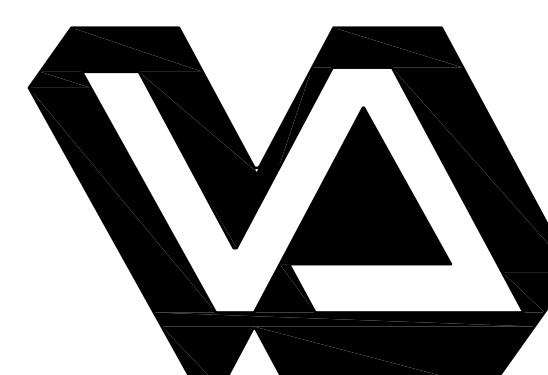


② E9 TYPICAL EXAM ROOM DEVICE MOUNTING HEIGHTS



① E9 FIRST FLOOR REMODELING PLAN - POWER
0' 4' 8' 16'

Revisions	Date

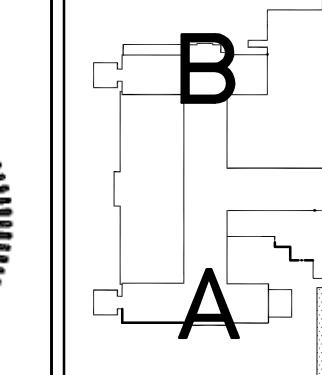


Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102



IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
SOLLEN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants



Drawing Title
**FIRST FLOOR REMODELING
PLAN - POWER**

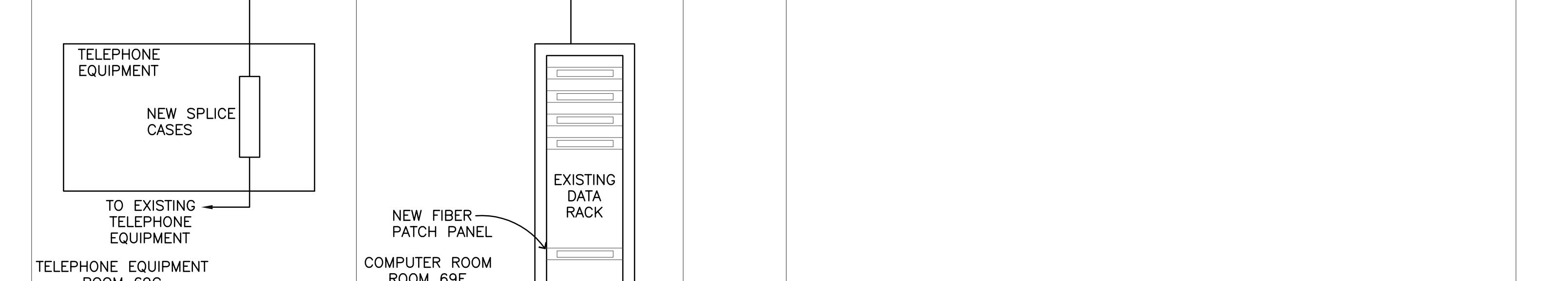
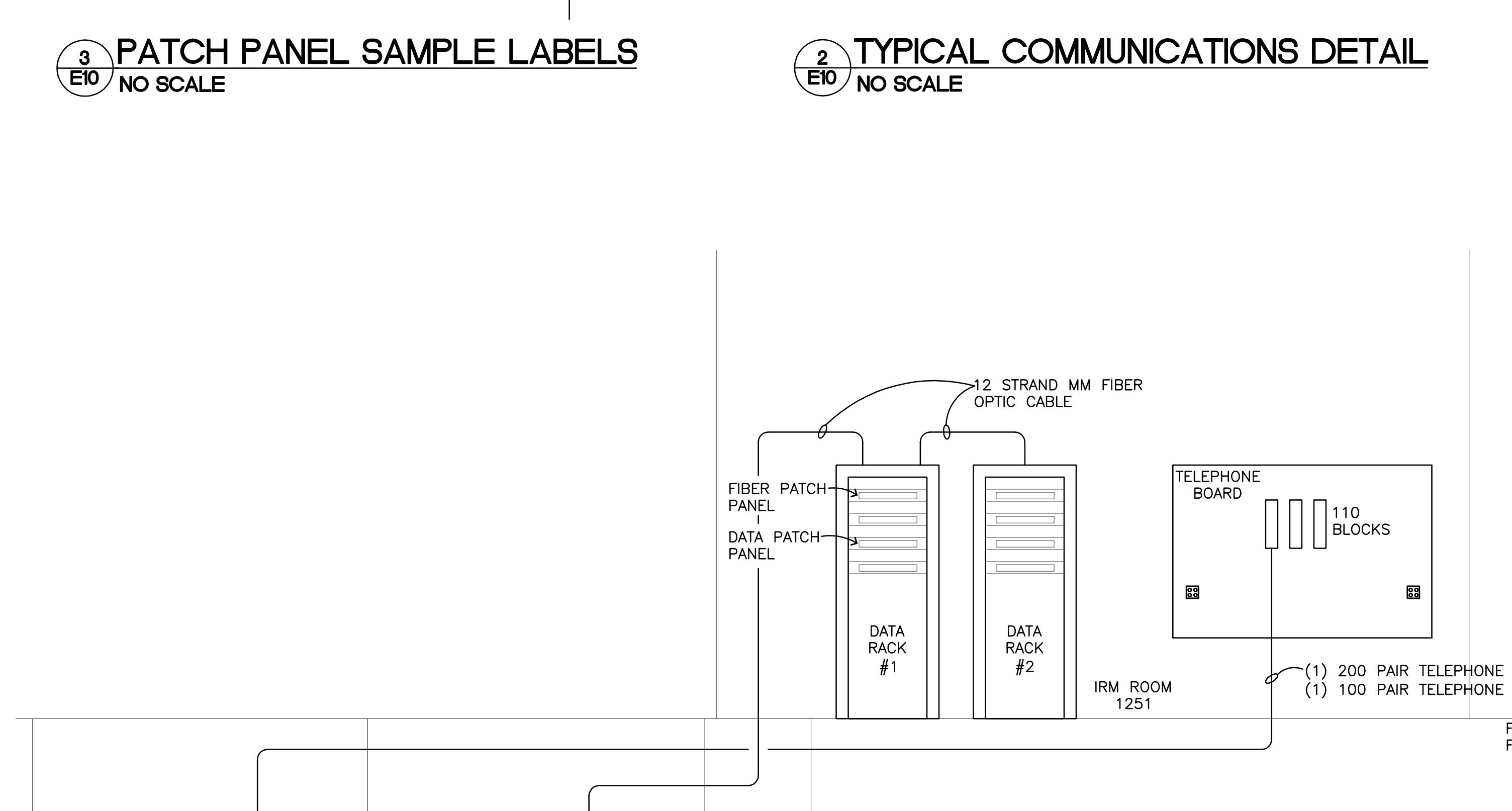
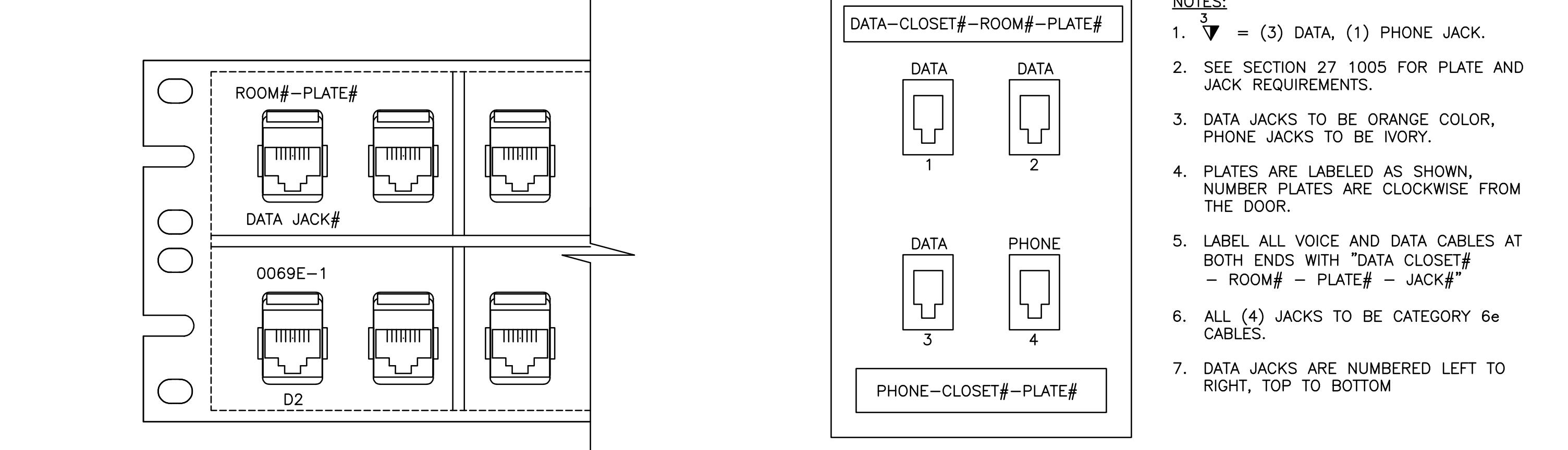
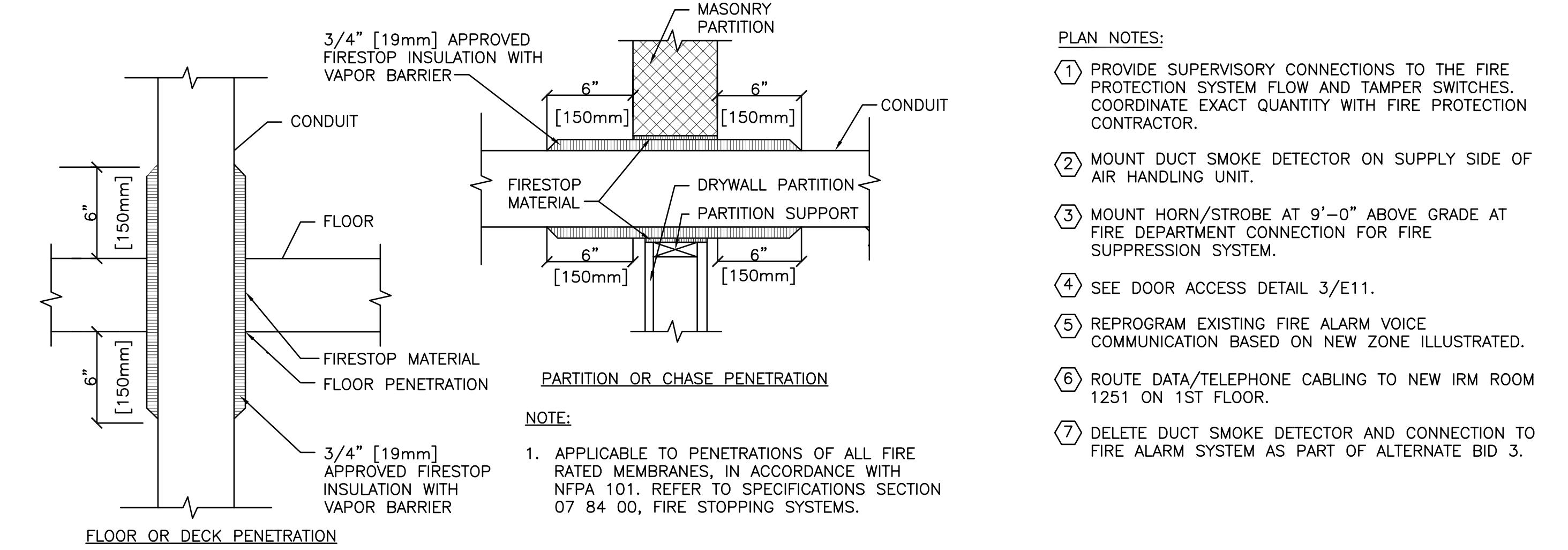
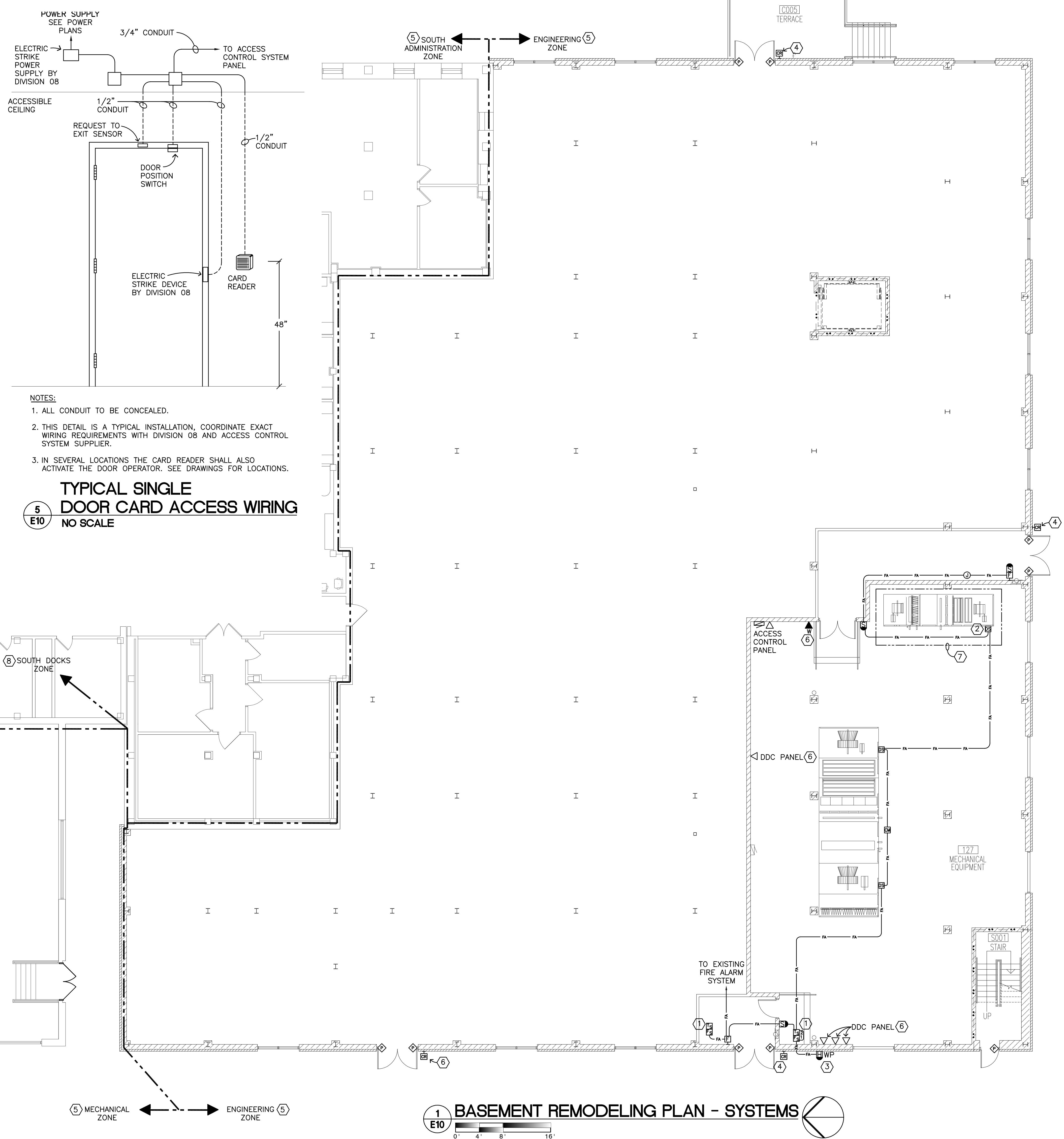
VA Project No. **437-310** Contract No. **VA263-P-0967**
Building No. **1** AutoCAD File Name **10-084 E9.DWG**

Project Title
**VA MEDICAL CENTER
BUILDING 1
ADDITIONAL OUTPATIENT TREATMENT SPACE**

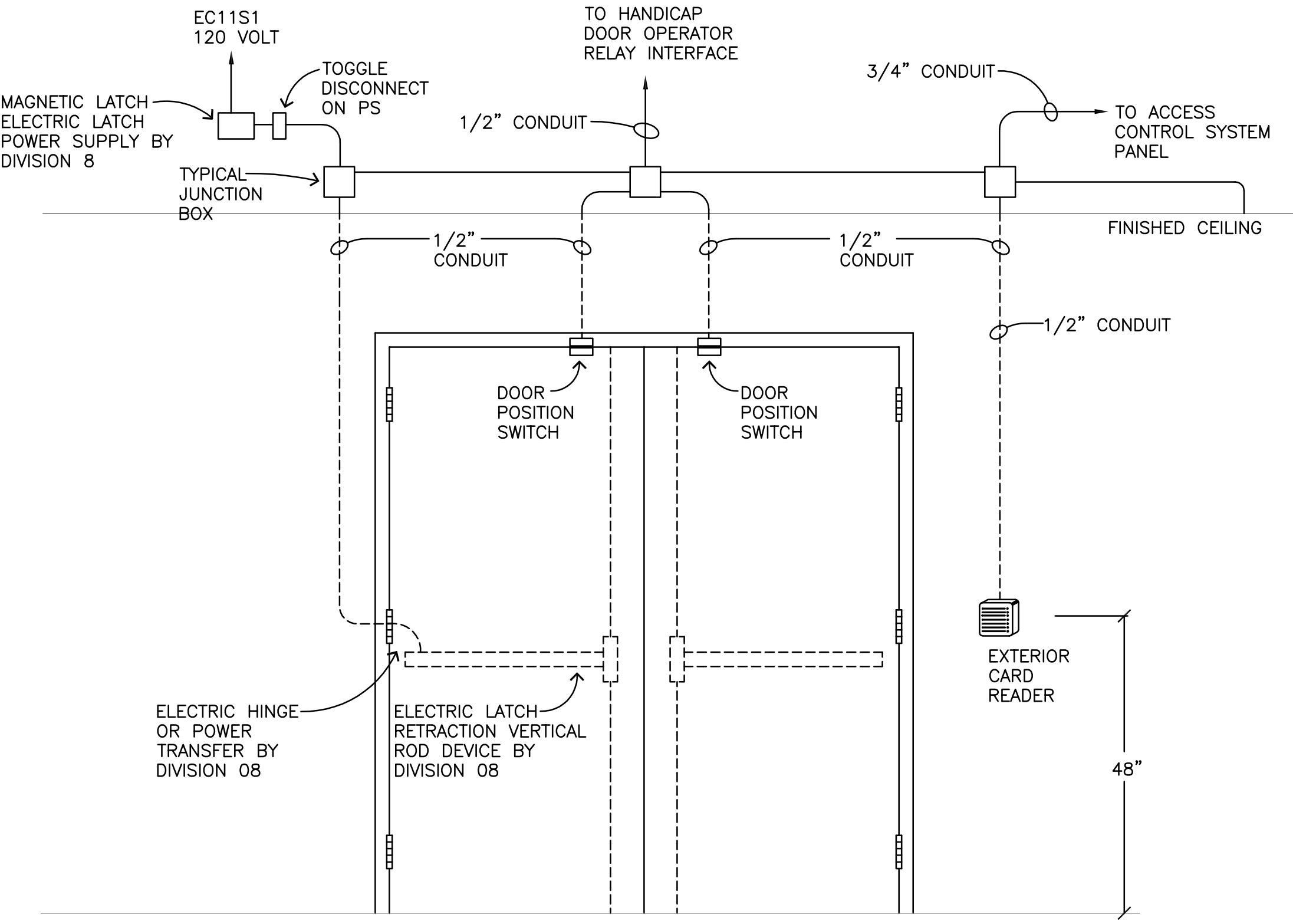
Designed By **MB** Checked By **MB** Drawn By **TP**
Drawing No. **E9**

Date **SEPTEMBER 19, 2011**
AS NOTED

Dwg. 75 of 83



Revisions	Date	Dept. of Veterans Affairs Medical Center 2101 Elm Street North Fargo, ND 58102	IMAGE GROUP INC. SOLEN & LARSON ENGINEERING, Structural Engineers OBERMILLER NELSON ENGINEERING, Mechanical Engineers MBN ENGINEERS, Civil & Electrical Engineers TRIO ENVIRONMENTAL, Environmental Consultants	MBN ENGINEERING MECHANICAL • ELECTRICAL • CIVIL 103 1/2 N. 4TH ST. FARGO, ND 58102 PHONE: 701.235.8226 FAX: 701.235.2436	B C KEY PLAN	Drawing Title BASEMENT REMODELING PLAN - SYSTEMS	Project Title VA MEDICAL CENTER BUILDING 1 ADDITIONAL OUTPATIENT TREATMENT SPACE	Date SEPTEMBER 19, 2011	AS NOTED	Drawing No. E10	Department of Veterans Affairs
						VA Project No. 437-310	Contract No. VA263-P-0967 VA263-C-	Building No. 1	AutoCAD File Name 10-084 E10.DWG	Location VA MEDICAL CENTER FARGO, ND	Dwg. 76 of 83

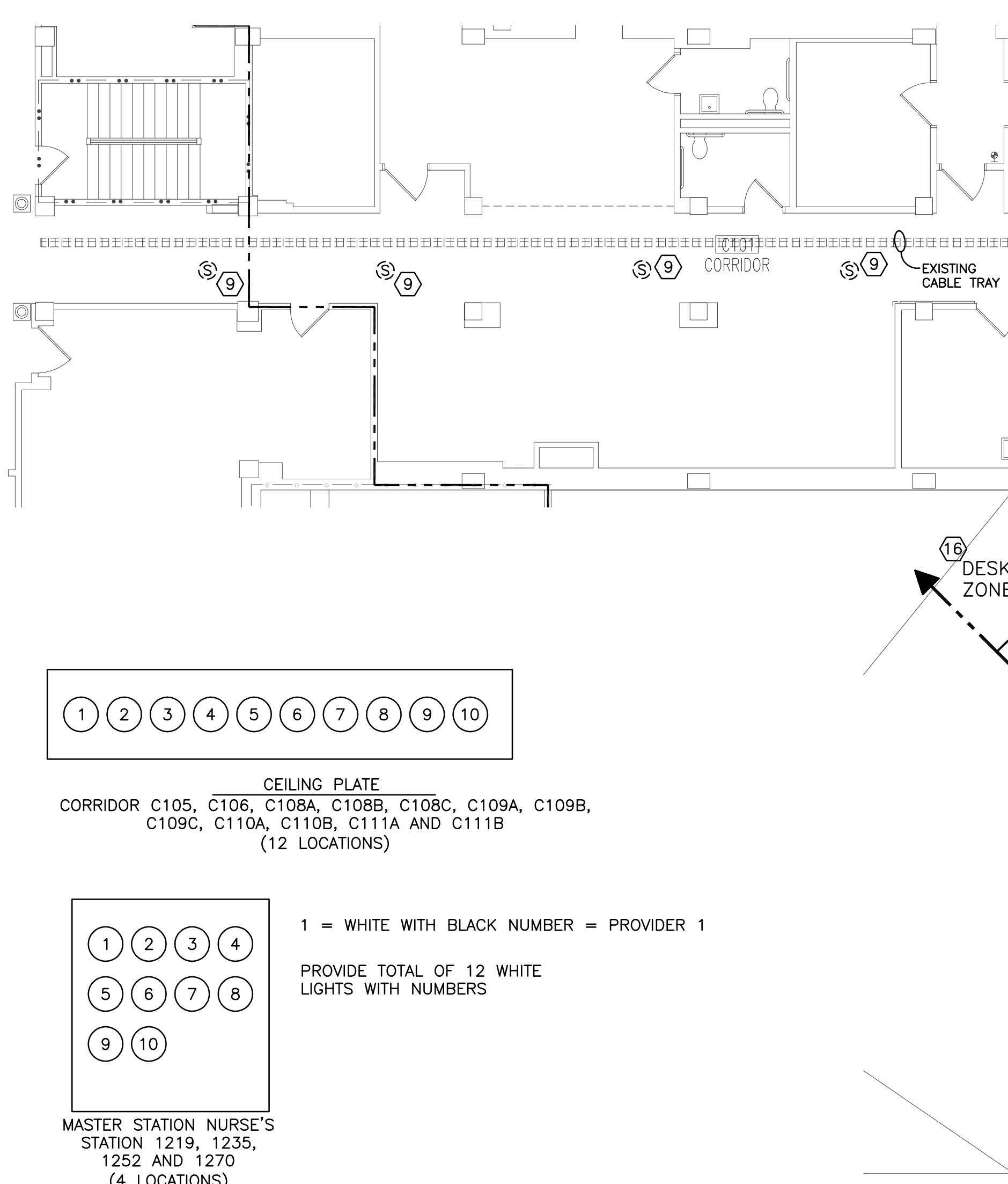


NOTES:

1. ALL CONDUIT TO BE CONCEALED.
2. THIS DETAIL IS A TYPICAL INSTALLATION, COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 08 AND ACCESS CONTROL SYSTEM SUPPLIER.
3. IN SEVERAL LOCATIONS THE CARD READER SHALL ALSO ACTIVATE THE DOOR OPERATOR. SEE DRAWINGS FOR LOCATIONS.

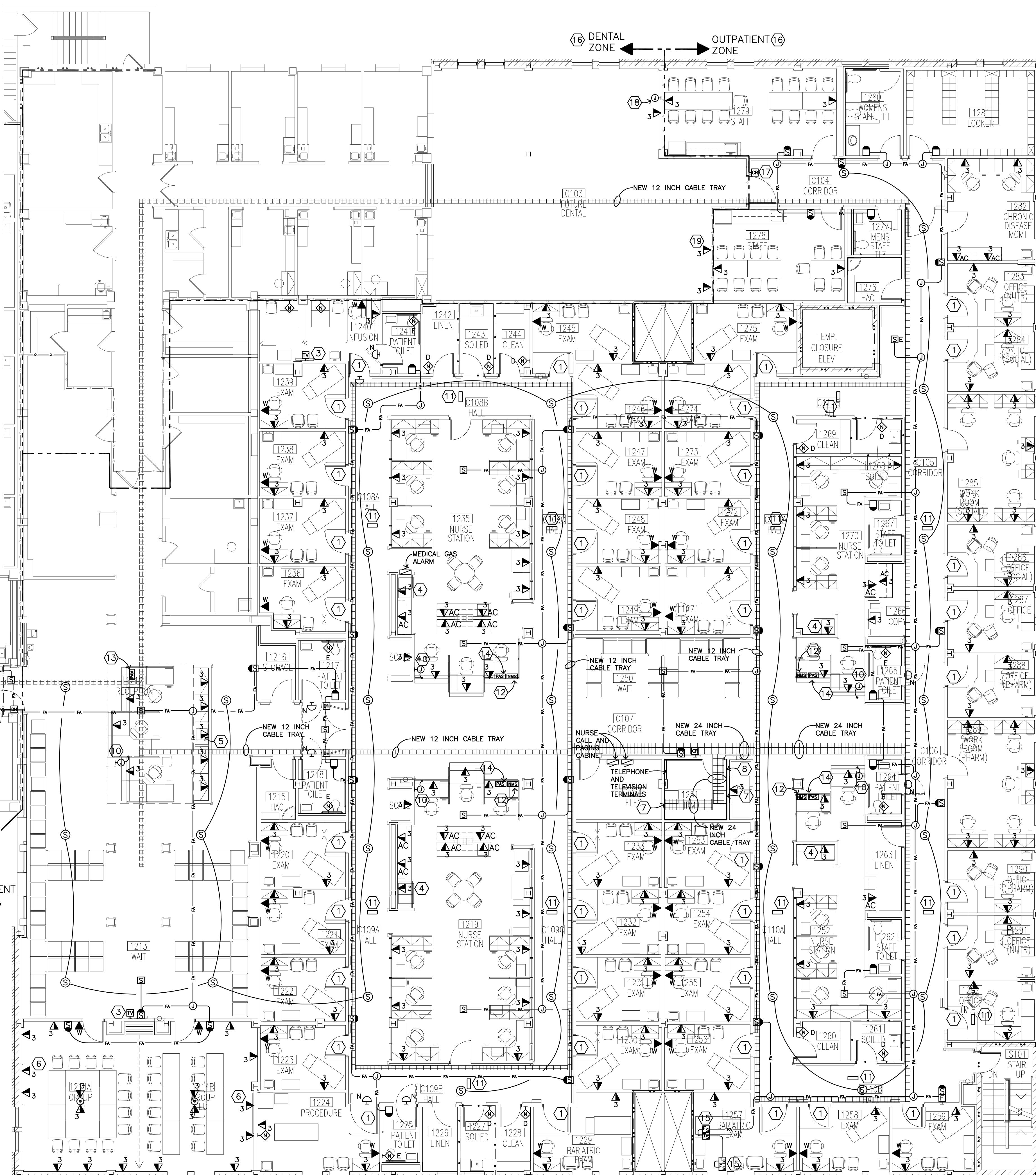
**TYPICAL DOUBLE
DOOR CARD ACCESS WIRING**

NO SCALE



PATIENT ANNUNCIATOR DETAIL

E11
NO SCALE



FIRST FLOOR REMODELING PLAN - SYSTEMS

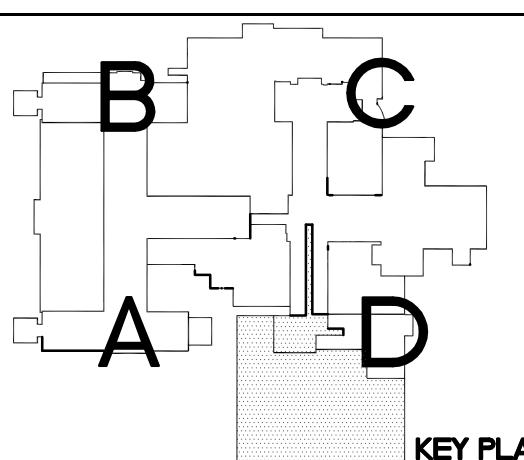
0' 4' 10' 16'

- POWER PLAN NOTES:**
- ① SEE 2/E9 FOR MOUNTING HEIGHTS OF DATA/COMMUNICATIONS OUTLETS IN THIS ROOM.
 - ② PROVIDE CONNECTION FROM TRANSFORMER(S) BY DIVISION 22 TO PLUMBING SENSORS. MOUNT TRANSFORMERS ABOVE CEILING.
 - ③ PROVIDE TV RECEPACLE FOR OWNER PROVIDED TELEVISION, VERIFY LOCATION AND MOUNTING HEIGHT WITH VA ENGINEER.
 - ④ PROVIDE DATA OUTLET FOR OMNICELL. OUTLET TO BE MOUNTED ABOVE COUNTER.
 - ⑤ DATA OUTLET TO BE INSTALLED INSIDE OF CABINET.
 - ⑥ PROVIDE DATA RECEPACLE FOR VTEL DISPLAY, MOUNT AT 60 INCHES.
 - ⑦ PROVIDE 24" X 24" FLOOR MOUNT DATA RACK.
 - ⑧ PROVIDE 4' X 8' 3/4 INCH THICK PLYWOOD BOARD, GRAY PAINTED, FIRE RATED ON ALL WALLS.
 - ⑨ INSTALL DEVICE SALVAGED DURING DEMOLITION AND CONNECT TO EXISTING CIRCUIT.
 - ⑩ PROVIDE FLEXIBLE CONNECTION TO MODULAR OFFICE FURNITURE. INSTALL DATA/PHONE OUTLETS WITHIN MODULAR FURNITURE. PROVIDE BEZELS AS REQUIRED.
 - ⑪ PATIENT ANNUNCIATOR SYSTEM LIGHTS. SEE DETAIL 2/E11.
 - ⑫ NURSE CALL MASTER STATION.
 - ⑬ PATIENT ANNUNCIATION MASTER STATION.
 - ⑭ PATIENT ANNUNCIATION MASTER SUBSTATION.
 - ⑮ PROVIDE SUPERVISORY CONNECTIONS TO THE FIRE PROTECTION SYSTEM FLOW AND TAMPER SWITCHES. COORDINATE EXACT QUANTITY WITH FIRE PROTECTION CONTRACTOR.
 - ⑯ REPROGRAM EXISTING FIRE ALARM SYSTEM COMMUNICATION BASED ON NEW ZONE ILLUSTRATED.
 - ⑰ SEE DOOR ACCESS DETAIL 5/E10.
 - ⑱ PROVIDE ROUGH IN FOR FUTURE CONNECTION TO EXAM ROOM COMPUTER AND PACS SYSTEM. COORDINATE ROUGH IN REQUIREMENTS WITH VA PROJECT ENGINEER.
 - ⑲ VERIFY MOUNTING HEIGHT WITH VA PROJECT ENGINEER.

Revisions	Date



IMAGE GROUP INC.
SOLEN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants

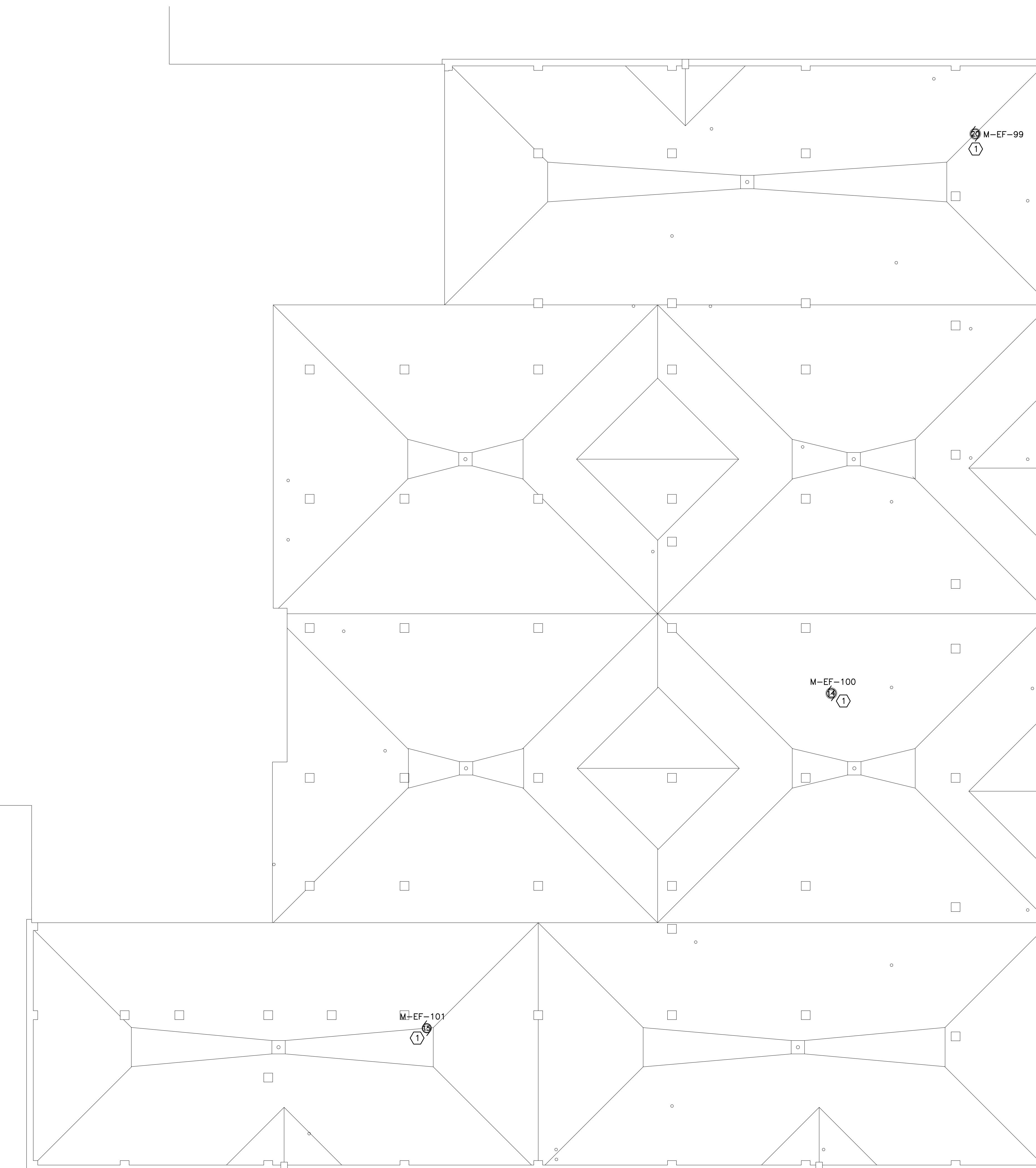


Drawing Title
**FIRST FLOOR REMODELING
PLAN - SYSTEMS**
VA Project No. 437-310 Contract No. VA263-P-0967
Building No. 1 Contract No. VA263-C-
AutoCAD File Name 10-084 E11.DWG

Project Title
**VA MEDICAL CENTER
BUILDING 1
ADDITIONAL OUTPATIENT TREATMENT SPACE**
Designed By MB Checked By MB Drawn By TP
Drawing No. E11
Location VA MEDICAL CENTER FARGO, ND

Date SEPTEMBER 19, 2011
AS NOTED
Drawing No. E11
Dwg. 77 of 83

POWER PLAN NOTES:
 ① CONNECTION OF EXHAUST FANS PART OF BASE
 BID. DELETE CONNECTIONS UNDER ALTERNATE
 BID NO. 2.



1
E12
0' 4' 8' 16'
ROOF REMODELING PLAN - ELECTRICAL

Revisions	Date

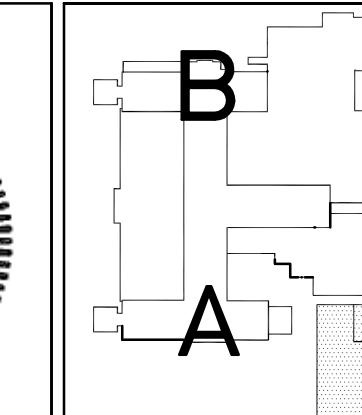
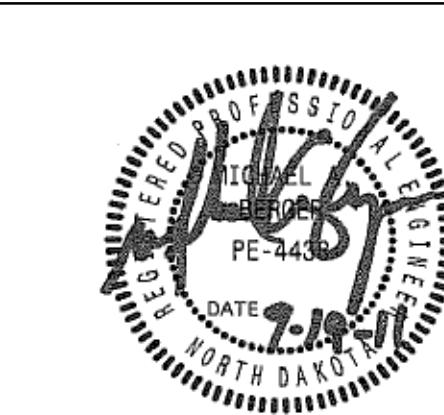
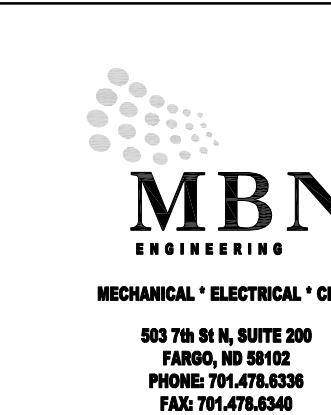


Dept. of Veterans Affairs
 Medical Center
 2101 Elm Street North
 Fargo, ND 58102



IMAGE GROUP INC.
 403 CENTER AVENUE, SUITE 300
 MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
 SOLEN & LARSON ENGINEERING, Structural Engineers
 OBERMILLER NELSON ENGINEERING, Mechanical Engineers
 MBN ENGINEERS, Civil & Electrical Engineers
 TRIO ENVIRONMENTAL, Environmental Consultants



Drawing Title		Project Title	
ROOF REMODELING PLAN - ELECTRICAL		VA MEDICAL CENTER BUILDING 1 ADDITIONAL OUTPATIENT TREATMENT SPACE	
VA Project No.	Contract No.	Designed By	Date
437-310	VA263-P-0967 VA263-C-	MB	SEPTEMBER 19, 2011

Building No.	AutoCAD File Name	Location
1	10-084 E12.DWG	VA MEDICAL CENTER FARGO, ND

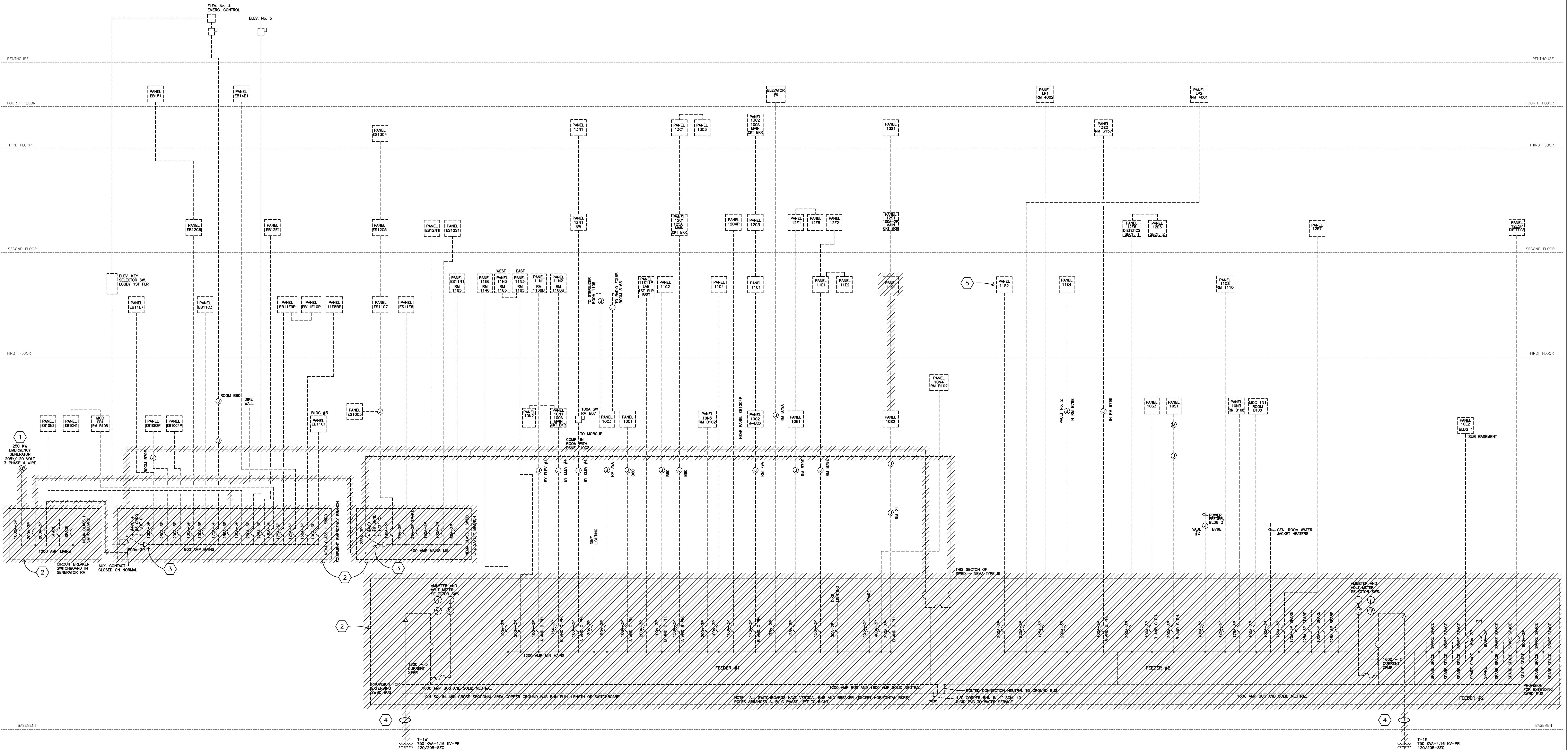
Drawing No.	TP	AS NOTED
E12		

GENERAL NOTES:

1. EXTEND ALL REMAINING EXISTING FEEDER CONDUITS AND CONDUCTORS TO THE NEW PANELBOARDS AND RECONNECT.
2. SEE SPECIFICATION SECTION 26 05 12 FOR PHASING REQUIREMENTS.

PLAN NOTES:

- (1) REMOVE EXISTING GENERATOR.
- (2) REMOVE EXISTING SWITCHBOARD.
- (3) REMOVE TRANSFER SWITCH.
- (4) REMOVE EXISTING CONDUCTORS, CONDUIT TO REMAIN.
- (5) CHANGE PANEL NAME FROM '11S2' TO '11S7'.



Revisions	Date



Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102



IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
SOLEN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants



Drawing Title:
**EXISTING ELECTRICAL
ONE-LINE DIAGRAM -
BUILDING 1**

VA Project No.
437-310

Contract No.
**VA263-P-0967
VA263-C-**

Designed By
MB

Checked By
MB

Drawn By
TP

Building No.
1

AutoCAD File Name
10-084 E13.DWG

Location
**VA MEDICAL CENTER
FARGO, ND**

Date
SEPTEMBER 19, 2011

AS NOTED

Drawing No.
E13

Department of
Veterans Affairs

FEEDER SCHEDULE									
FEEDER NUMBER	AMPERE RATING	PHASE CONDUCTORS PER CONDUIT		NEUTRAL CONDUCTOR SIZE		GROUND CONDUCTOR SIZE	CONDUIT SIZE	NUMBER OF PARALLEL SETS	REMARKS
		QUANTITY	SIZE	QUANTITY	SIZE				
50N	50	3	6 AWG	1	6 AWG	8 AWG	1-1/4"	1	
100N	100	3	2/0 AWG	1	2/0 AWG	6 AWG	2"	1	
200N	200	3	250 KCMIL	1	250 KCMIL	6 AWG	2-1/2"	1	
200	200	3	3/0 AWG			6 AWG	2"	1	
250N	250	3	300 KCMIL	1	300 KCMIL	4 AWG	2-1/2"	1	
300N	300	3	4/0 AWG	1	4/0 AWG	4 AWG	2-1/2"	2	
400N	400	3	4/0 AWG	1	4/0 AWG	4 AWG	2-1/2"	2	
800N	800	3	300 KCMIL	1	300 KCMIL	2 AWG	3"	3	
1600N	1600	3	300 KCMIL	1	300 KCMIL	1/0 AWG	3"	5	
2000S	2000	3	400 KCMIL	1	400 KCMIL		4"	6	EXISTING CONDUIT

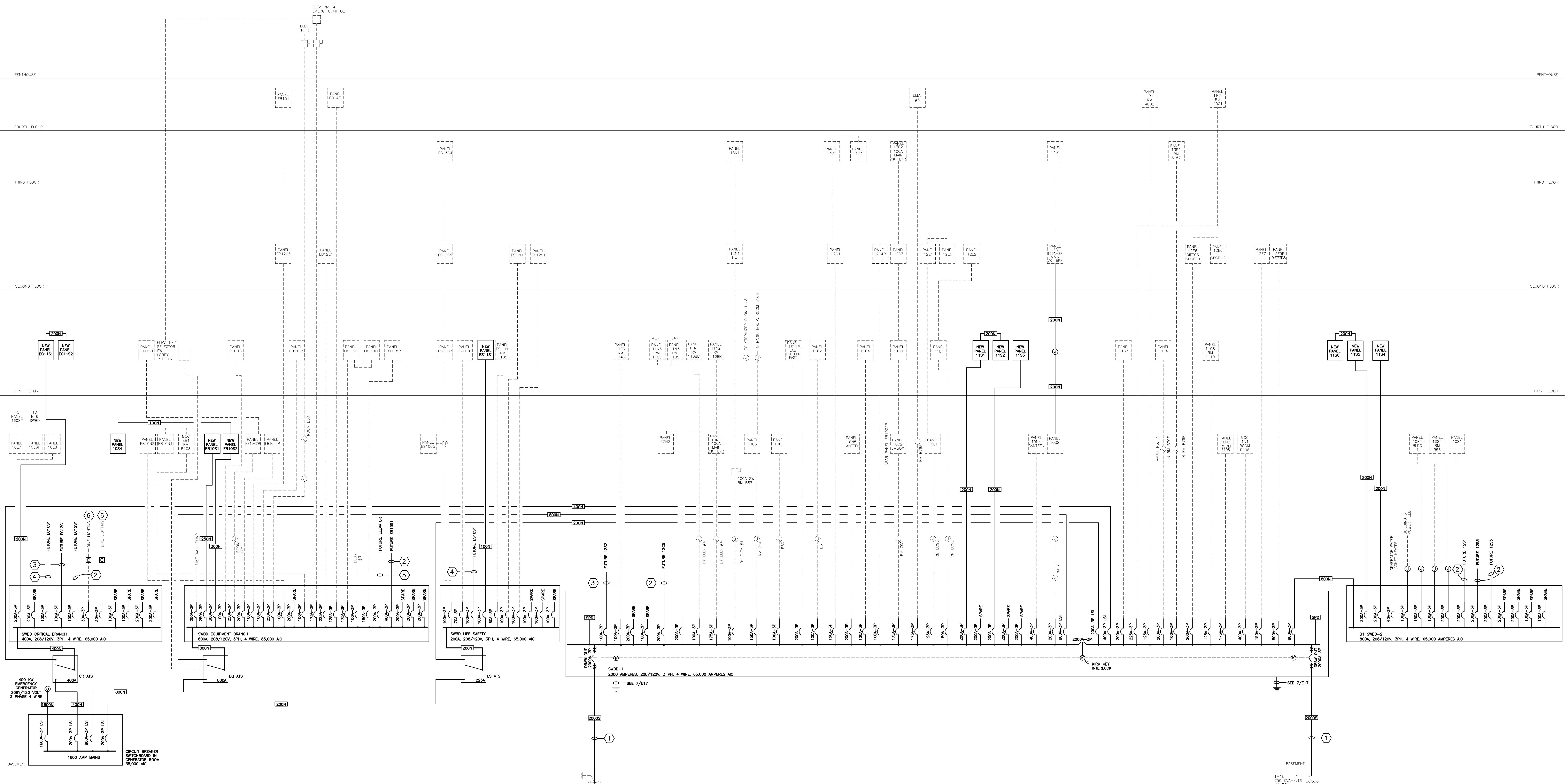
TRANSFER SWITCH SCHEDULE								
NUMBER	TYPE	TRANSITION TYPE	VOLTAGE	SWITCHED POLES	AMPERAGE	BY-PASS ISOLATION	ENCLOSURE	REMARKS
—LS	LIFE SAFETY BRANCH	OPEN	208/120, 3 PH, 4W	4	200	NO	NEMA 1	40,000 AIC WITH CB
—CR	CRITICAL BRANCH	OPEN	208/120, 3 PH, 4W	4	400	NO	NEMA 1	40,000 AIC WITH CB
—EB	EQUIPMENT BRANCH	OPEN	208/120, 3 PH, 4W	4	800	NO	NEMA 1	40,000 AIC WITH CB

GENERAL NOTES:

1. SEE SPECIFICATION SECTION 26 05 12 FOR PHASING REQUIREMENTS.
 2. PROVIDE CIRCUIT BREAKERS THAT ARE SELECTIVELY COORDINATED FOR THE LIFE SAFETY BRANCH, CRITICAL BRANCH AND EQUIPMENT BRANCH TO MEET NEC REQUIREMENTS.

PLAN NOTES:

 - ① REUSE EXISTING CONDUIT FOR NEW CONDUCTOR
 - ② STUB 2 1/2" CONDUIT TO ELECTRICAL ROOM 1 FOR FUTURE PANEL.
 - ③ STUB 2" CONDUIT TO ELECTRICAL ROOM 1234 FUTURE PANEL.
 - ④ STUB 2" CONDUIT TO CEILING ABOVE FUTURE ELECTRICAL ROOM 124 FOR FUTURE PANEL.
 - ⑤ STUB 2 1/2" CONDUIT TO CEILING ABOVE FUTURE ELEVATOR MECHANICAL ROOM 122.
 - ⑥ PROVIDE CONTACTOR AND PHOTOCELL FOR EXISTING DIKE LIGHTING. SEE DETAIL 4/E2.



1 REVISED ELECTRICAL ONE-LINE DIAGRAM - BUILDING 1
E14 NO SCALE

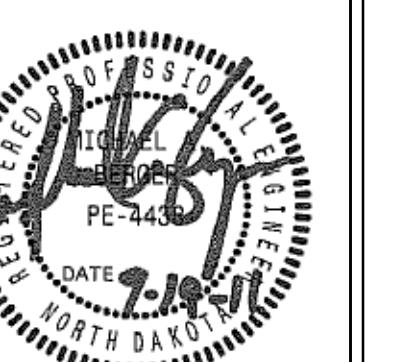


**Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102**



IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
SOLIEN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants



Drawing Title

**REVISED ELECTRICAL
ONE-LINE DIAGRAM -
BUILDING 1**

Project Title

**VA MEDICAL CENTER
BUILDING 1
ADDITIONAL OUTPATIENT TREATMENT SPACE**

Designed By MB	Checked By MB	Drawn By TP	Dra
--------------------------	-------------------------	-----------------------	-----

SEPTEMBER 19, 2011	AS NOTED
wing No.	E14

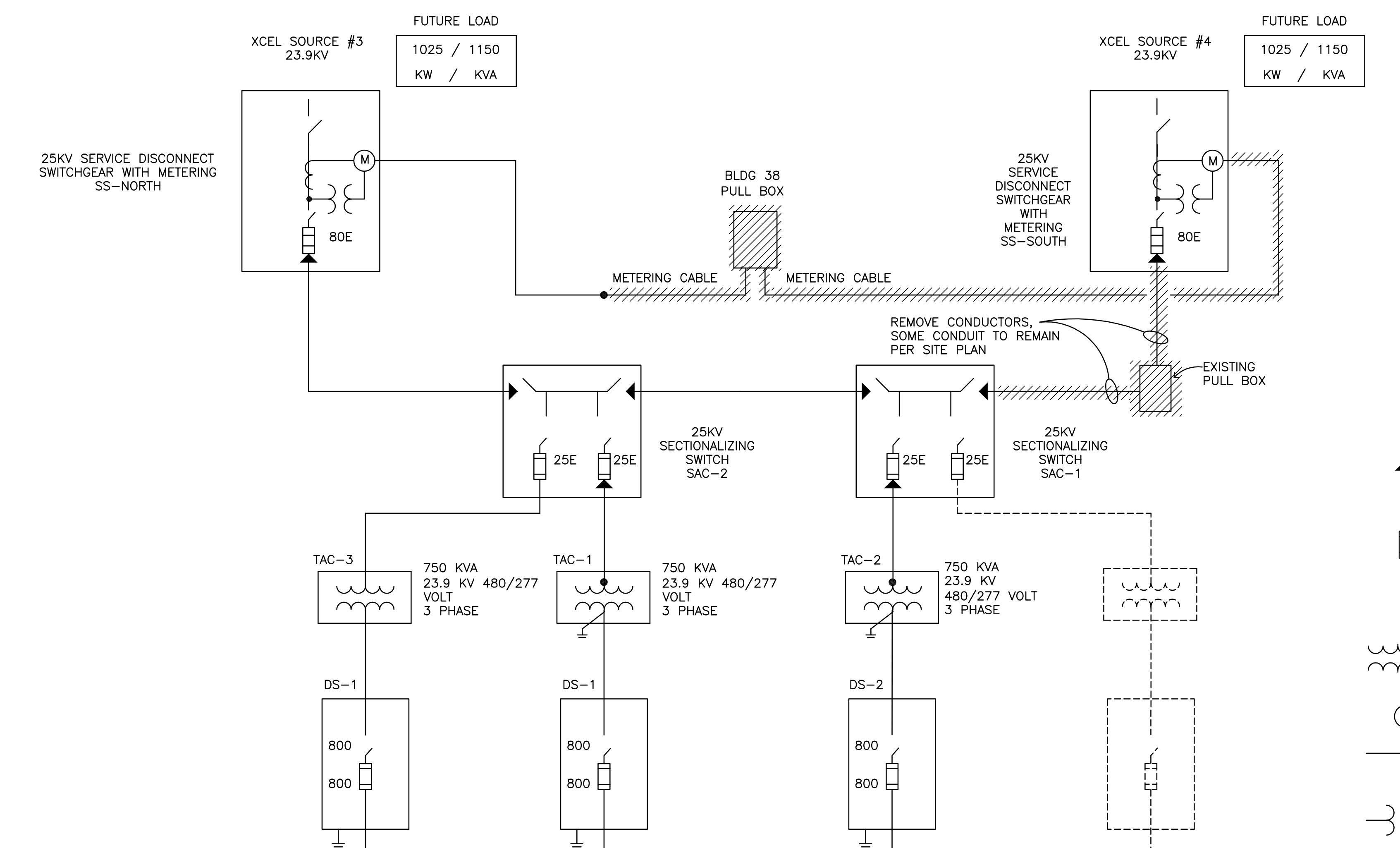
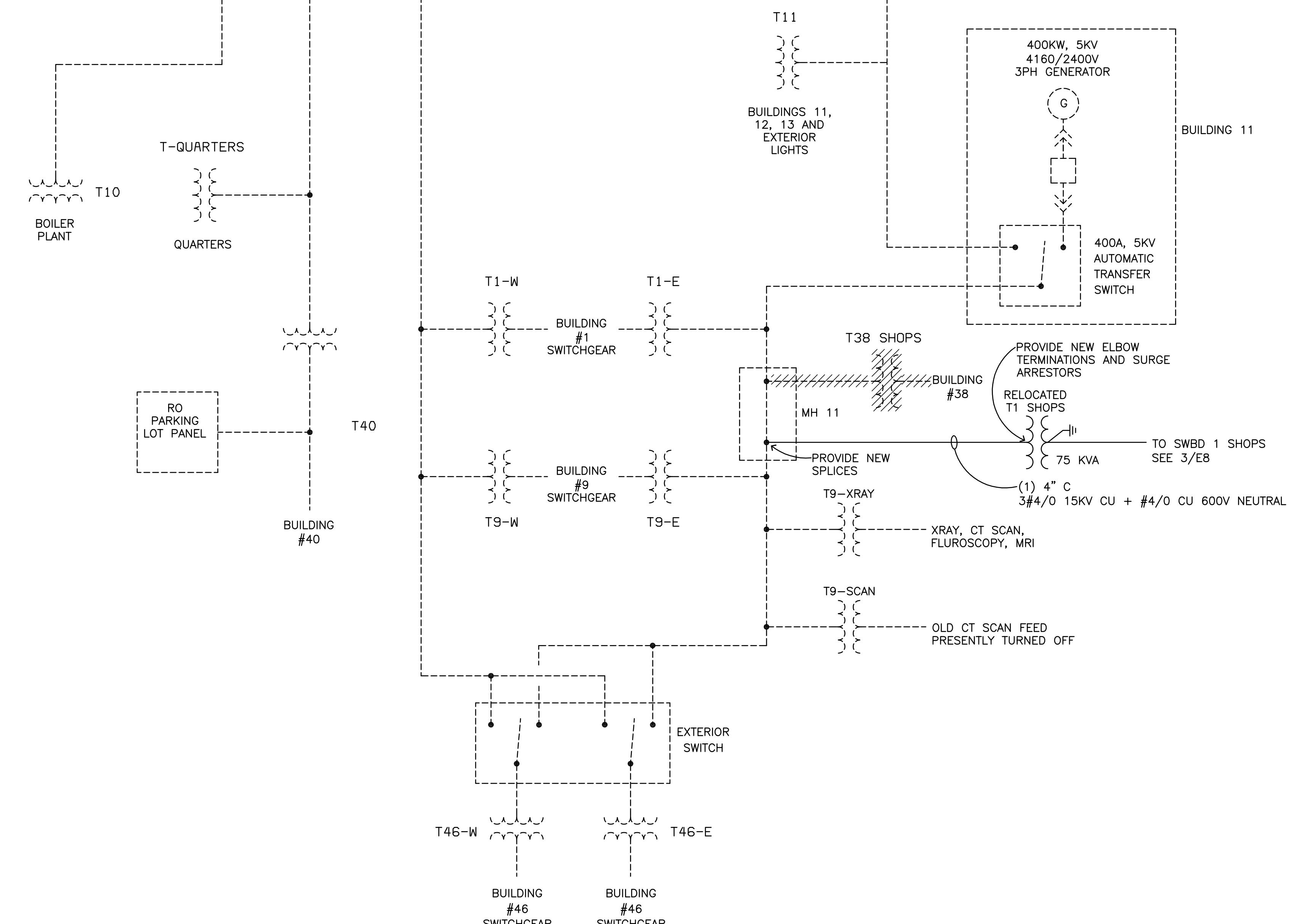
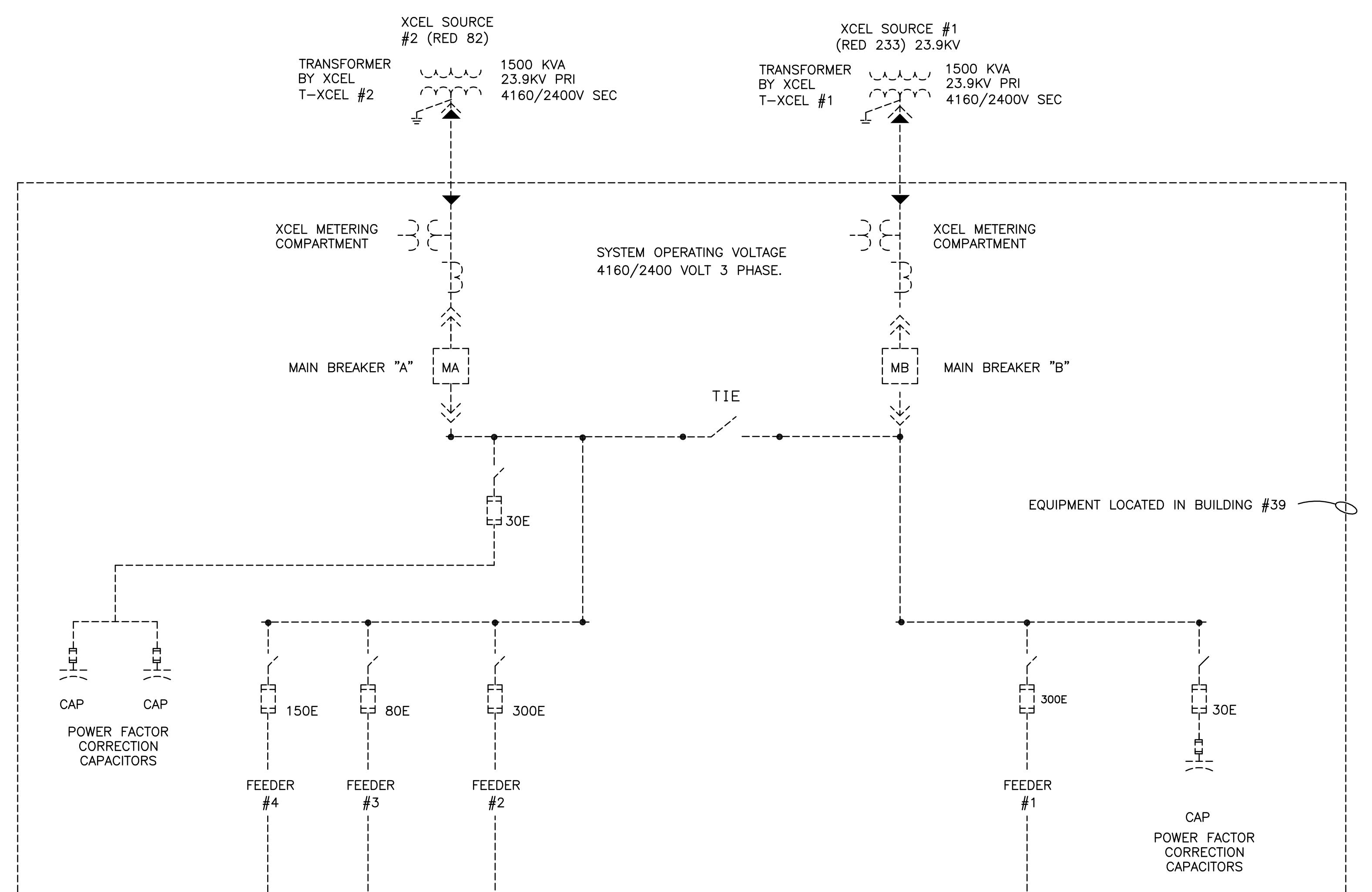


IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
SOLEN & LARSON ENGINEERING, Structural Engineers
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERS, Civil & Electrical Engineers
TRIO ENVIRONMENTAL, Environmental Consultants



Drawing Title		Project Title		Date
ELECTRICAL ONE LINE DIAGRAMS		VA MEDICAL CENTER BUILDING 1 ADDITIONAL OUTPATIENT TREATMENT SPACE		SEPTEMBER 19, 2011
VA Project No.	Contract No.	Designed By	Checked By	Drawn By
437-310	VA263-P-0967 VA263-C-	MB	MB	TP
Building No.	AutoCAD File Name	Location		
1	10-084 E15.DWG	VA MEDICAL CENTER FARGO, ND		

PANELBOARD LOAD SCHEDULE											
PANEL:	10S4	MAIN: MLO	VOLTS: 208Y/120, 3 PH., 4W.	ENCLOSURE: NEMA 1	LOCATION: 127						
RATING:	100 AMP	AIC RATING:	10,000	MOUNTING: SURFACE	FED FROM: EB10S2						
Ckt # TRIP # AMP Pole LOAD IN VOLT-AMPERES LOAD DESCRIPTION PH LOAD IN VOLT-AMPERES LOAD DESCRIPTION PH LOAD IN VOLT-AMPERES LOAD DESCRIPTION PH											
1	20	1	1750	LIGHTING RECEPT MOTORS KITCHEN HEAT/AC	127	A	127	1020	20	1	2
3	20	1	1000	EXTERIOR RECEPTACLES	127	B	SHELL SPACE	1000	20	1	4
5	20	1	800	DDC PANELS	127	C	400	20	1	6	
7	20	1	1500	DDC PANEL	A	127	1000	20	1	8	
9	20	1	500	C005	B	400	20	1	10		
11	20	1	200	1	C	100	20	1	12		
13	80	1	5800	CHILLED WATER	A	CHILLED WATER	400	20	1	14	
15	80	1	5800	M-CWP-18	B	M-CWP-18	80	2	16		
17	3	3	5800	C	3	18					
19	20	1	800	EXTERIOR LIGHTING	A	SPARE	20	1	20		
21	20	1		SPARE	B	SPARE	20	1	22		
23	20	1		SPARE	C	SPARE	20	1	24		
25	20	1		SPARE	A	SPARE	20	1	26		
27	20	1		SPARE	B	SPARE	20	1	28		
29	20	1		SPARE	C	SPARE	20	1	30		
31	20	1		SPARE	A	SPARE	20	1	32		
33	20	1		SPARE	B	SPARE	20	1	34		
35	20	1		SPARE	C	SPARE	20	1	36		
37	125			FUTURE AHU-76	A	FUTURE AHU-76	70	3	38		
39	76			SF-76	B	RF-76	40	3	40		
41	3			C	3	42					
LOAD CALCULATIONS											
LOAD TYPE	A	B	C	TOTAL VA	Demand Factor	Diversified Load					
LIGHTING	3570	1000	0	4570	1.00	4570					
RECEPTACLES	1000	1400	1600	4000	0.50	2000					
MOTORS	7300	6300	6000	19600	0.90	17640					
KITCHEN EQUIP.	0	0	0	0	0.65	0					
HEAT / AC	0	0	0	0	0.90	0					
TOTAL AMPS:	67					24210					
NOTES:											

PANELBOARD LOAD SCHEDULE											
PANEL:	EB10S1	MAIN: MLO	VOLTS: 208Y/120, 3 PH., 4W.	ENCLOSURE: NEMA 1	LOCATION: 127						
RATING:	400 AMP	AIC RATING:	10,000	MOUNTING: SURFACE	FED FROM: BLDG 1 SWBD EB						
Ckt # TRIP # AMP Pole LOAD IN VOLT-AMPERES LOAD DESCRIPTION PH LOAD IN VOLT-AMPERES LOAD DESCRIPTION PH LOAD IN VOLT-AMPERES LOAD DESCRIPTION PH											
1	20	1	1750	127	A	127	1020	20	1	2	
3	20	1	1000	127	B	SHELL SPACE	1000	20	1	4	
5	20	1	800	EXTERIOR RECEPTACLES	C	127	400	20	1	6	
7	20	1	1500	DDC PANELS	A	127	1000	20	1	8	
9	20	1	500	DDC PANEL	B	400	20	1	10		
11	20	1	200	1	C	100	20	1	12		
13	80	1	5800	SPARE	A	SPARE	20	1	14		
15	80	1	5800	SPARE	B	SPARE	20	1	16		
17	3	3	5800	SPARE	C	SPARE	20	1	18		
19	20	1	800	SPARE	A	104	800	20	1	20	
21	20	1	1400	1279,1280	B	1279 MICROWAVE	1200	20	1	22	
23	20*	1	1800	1279 REFRIG	C	1279 COFFEE	1000	20	1	24	
25	20	1	1200	1279 MICRO	A	SPARE	20	1	26		
27	20	1	1200	1283	B	C105,C106	1600	20	1	28	
29	20	1	800	1283	C	1282	800	20	1	30	
31	20	1	1200	1285	A	1282	800	20	1	32	
33	20	1	800	1285	B	1284	800	20	1	34	
35	20	1	1200	1287	C	1284	800	20	1	36	
37	20	1	800	1287	A	1286	1200	20	1	38	
39	20	1	1200	1288	B	1286	800	20	1	40	
41	20	1	800	1288	C	C111A,C111B	600	20	1	42	
43	20	1	400	1279	A	SPARE	20	1	44		
45	20	1		SPARE	B	SPARE	20	1	46		
47	20	1		SPARE	C	SPARE	20	1	48		
49	20	1		SPARE	A	SPARE	20	1	50		
51	20	1		SPARE	B	SPARE	20	1	52		
53	20	1		SPARE	C	FEED THRU	2000	20	1	54	
LOAD CALCULATIONS											
LOAD TYPE	A	B	C	TOTAL VA	Demand Factor	Diversified Load					
LIGHTING	0	0	0	0	1.00	0					
RECEPTACLES	18900	20000	18400	58200	0.50	29100					
MOTORS	2400	2800	4800	10000	0.90	9000					
KITCHEN EQUIP.	0	0	0	0	0.65	0					
HEAT / AC	0	0	0	0	0.90	0					
TOTAL AMPS:	65					23220					
NOTES:											
1. BREAKERS NOTED WITH * TO BE GFCI											
2. PROVIDE FEED THRU LUGS											

PANELBOARD LOAD SCHEDULE											
PANEL:	EB10S2	MAIN: MLO	VOLTS: 208Y/120, 3 PH., 4W.	ENCLOSURE: NEMA 1	LOCATION: 127						
RATING:	400 AMP	AIC RATING:	10,000	MOUNTING: SURFACE	FED FROM: BLDG 1 SWBD EB						

<tbl_r cells="6" ix="3" maxcspan="6" maxrspan="1" used

PANELBOARD LOAD SCHEDULE											
PANEL:	EC11S1	MAIN:	MLO	ENCLOSURE:	NEMA 1	LOCATION:	1234	CKT #	TRIP AMPS	POLE	LOAD IN VOLT-AMPERES
RATING:	225 AMP	VOLTS:	208Y/120, 3 PH., 4W.	MOUNTING:	SURFACE	FED FROM:	BLDG 1 SWBD CB	LOAD DESCRIPTION	PH	LOAD DESCRIPTION	HEAT/AC
CKT #	TRIP AMPS	POLE	LOAD IN VOLT-AMPERES	KITCHEN	MOTORS	RECEPT	LIGHTING	CKT #	TRIP AMPS	POLE	LOAD IN VOLT-AMPERES
1	20	1	SPARE	A	SPARE			20	1	2	SPARE
3	20	1	SPARE	B	1229 PATIENT LIFT	400		20	1	4	1229 PATIENT LIFT
5	20	1	1200	C	1230 PATIENT LIFT	400		20	1	6	1230 PATIENT LIFT
7	20	1	SPARE	A	SPARE			20	1	8	SPARE
9	20	1	SPARE	B	SPARE			20	1	10	SPARE
11	20	1	SPARE	C	1238-1239	1200		20	1	12	1238-1239
13	20	1	1200	A	SPARE			20	1	14	1200
15	20	1	600	B	1212	800		20	1	16	1212
17	20	1	400	C	1283-1284	1200		20	1	18	1283-1284
19	20	1	1000	A	1286-1287	1200		20	1	20	1286-1287
21	20	1	1200	B	1289	600		20	1	22	1289
23	20	1	600	C	1291-1292	1200		20	1	24	1291-1292
25	20	1	1200	A	1258-1259	400		20	1	26	1258-1259
27	20	1	400	B	1252	1200		20*	1	28	1252
29	20	1	1200	C	1252 OMNICELL	400		20	1	30	1252 OMNICELL
31	20	1	400	A	1270 OMNICELL	1200		20	1	32	1270 OMNICELL
33	20*	1	1200	B	1270	400		20	1	34	1270
35	20	1	400	C	1270 NURSE STATION	1200		20	1	36	1270 NURSE STATION
37	20	1	1200	A	1242-1243	1200		20	1	38	1242-1243
39	20	1	1200	B	1246-1247	1200		20	1	40	1246-1247
41	20	1	SPARE	C	1230-1231	1200		20	1	42	1230-1231
43	20	1	SPARE	A	C103	200		20	1	44	C103
45	20	1	1200	B	1257 PATIENT LIFT	400		20	1	46	1257 PATIENT LIFT
47	20	1	400	C	CARD READER	1500		20	1	48	CARD READER
49	20	1	SPARE	A	PANEL	7400		20	1	50	PANEL
51	20	1	SPARE	B	EC11S2	7300		20	1	52	EC11S2
53	20	1	SPARE	C	FEED THRU	7800		20	1	54	FEED THRU

PANEL:	EC11S2	MAIN:	MLO	ENCLOSURE:	NEMA 1	LOCATION:	1234	CKT #	TRIP AMPS	POLE	LOAD IN VOLT-AMPERES
RATING:	225 AMP	VOLTS:	208Y/120, 3 PH., 4W.	MOUNTING:	SURFACE	FED FROM:	EC11S1	LOAD DESCRIPTION	PH	LOAD DESCRIPTION	HEAT/AC
1	20	1	SPARE	A	SPARE			20	1	2	SPARE
3	20	1	SPARE	B	1229 PATIENT LIFT	400		20	1	4	1229 PATIENT LIFT
5	20	1	1125	C	1230 PATIENT LIFT	400		20	1	6	1230 PATIENT LIFT
7	20	1	SPARE	A	SPARE			20	1	8	SPARE
9	20	1	SPARE	B	SPARE			20	1	10	SPARE
11	20	1	SPARE	C	1238-1239	1200		20	1	12	1238-1239
13	20	1	1200	A	SPARE			20	1	14	1200
15	20	1	600	B	1212	800		20	1	16	1212
17	20	1	400	C	1282	1200		20	1	18	1282
19	20	1	1000	A	1286-1287	1200		20	1	20	1286-1287
21	20	1	1200	B	1289	600		20	1	22	1289
23	20	1	600	C	1291-1292	1200		20	1	24	1291-1292
25	20	1	1200	A	1258-1259	400		20	1	26	1258-1259
27	20	1	400	B	1252	1200		20*	1	28	1252
29	20	1	1200	C	1252 NURSE STATION	400		20	1	30	1252 NURSE STATION
31	20	1	400	A	1270 OMNICELL	1200		20	1	32	1270 OMNICELL
33	20	1	1200	B	1270	400		20	1	34	1270
35	20	1	400	C	1270 NURSE STATION	1200		20	1	36	1270 NURSE STATION
37	20	1	1200	A	1242-1243	1200		20	1	38	1242-1243
39	20	1	1200	B	1246-1247	1200		20	1	40	1246-1247
41	20	1	SPARE	C	1230-1231	1200		20	1	42	1230-1231
43	20	1	SPARE	A	C103	200		20	1	44	C103
45	20	1	1200	B	1257 PATIENT LIFT	400		20	1	46	1257 PATIENT LIFT
47	20	1	400	C	CARD READER	1500		20	1	48	CARD READER
49	20	1	SPARE	A	PANEL	7400		20	1	50	PANEL
51	20	1	SPARE	B	EC11S2	7300		20	1	52	EC11S2
53	20	1	SPARE	C	FEED THRU	7800		20	1	54	FEED THRU

PANEL:	ES11S1	MAIN:	MLO	ENCLOSURE:	NEMA 1	LOCATION:	1234	CKT #	TRIP AMPS	POLE	LOAD IN VOLT-AMPERES
RATING:	100 AMP	VOLTS:	208Y/120, 3 PH., 4W.	MOUNTING:	SURFACE	FED FROM:	BLDG 1 SWBD LS	LOAD DESCRIPTION	PH	LOAD DESCRIPTION	HEAT/AC
1	20	1	300	A	WEST CORRIDOR			120	20	1	2
3	20	1	SPARE	B	SPARE			20	1	4	SPARE
5	20	1	SPARE	C	SPARE			20	1	6	SPARE
7	20	1	SPARE	A	SPARE			20	1	8	SPARE
9	20	1	SPARE	B	SPARE			20	1	10	SPARE
11	20	1	SPARE	C	SPARE			20	1	12	SPARE
13	20	1	SPARE	A	SPARE			20	1	14	SPARE
15	20	1	SPARE	B	SPARE			20	1	16	SPARE
17	20	1	SPARE	C	SPARE			20	1	18	SPARE
19	20	1									